



Northeastern University

Undergraduate Catalog 2016–2017

Full-Time Day Programs

Table of Contents

Admission	9	NUpath Requirements	34
Admission Policy and Entrance Requirements	9	NUpath Learning Goals	35
University Honors Program	12	Writing-Intensive Courses	37
Specialized Entry Programs	12	Additional Requirements for BA Students	37
Merit Scholarships	13	University-Wide Requirements	38
Information for Entering Students	15	Living and Learning Communities	38
Student Orientation	15	Experiential Learning	38
Orientation for International Students	15	Cooperative Education	38
Parent/Family Programs	15	Research and Creative Activity	39
Residential Life	15	Service-Learning	40
Health Requirements—University Health and Counseling Services (UHCS)	16	Global Experience	40
English-Language Testing	16	World Languages Center	41
Accommodations for Students with Disabilities	16	University Scholars Program	41
We Care	16	University Honors Program	41
College Expenses	17	Northeastern Explore Program	41
Financial Aid	17	Premedical and Other Preprofessional Health Career Preparation	42
Student/Parent Loans	17	Prelaw Preparation	42
Bill Payment	17	Education	42
Tuition, Room, Board, and Fees Per Semester	19	Teaching, MAT PlusOne Program	43
Academic Policies and Procedures	22	Army, Air Force, and Navy Reserve Officers' Training Corps (ROTC) Programs	43
Academic Integrity Policy	22	General Studies Program	44
Accommodations for Students with Disabilities	22	About Sample Curricula	44
Attendance Requirements	22	Undergraduate Degrees	44
Student Evaluation of Courses (TRACE)	23	College of Arts, Media and Design	46
Registration and Taking Courses	23	School of Architecture	46
Final Examinations and Related Policies on Other Exams and Final Term Papers/Projects	25	Architecture, BS	47
Course Credit Guidelines	26	Architectural Studies, BS	49
Grading System	26	Landscape Architecture, BLA	50
Academic Honors	28	Architectural History, Minor	51
Academic Progression Standards	28	Urban Landscape Studies, Minor	52
Graduation Requirements	29	Art + Design	52
Degrees, Majors, and Minors	29	Art, BA	54
Personal Information	31	Art with Concentration in Visual Studies, BA	56
Family Educational Rights and Privacy Act (FERPA)	31	English and Graphic and Information Design, BA	58
Student Right-to-Know Act	32	Media Arts and Communication Studies, BA	60
Leaves of Absence and University Withdrawal	32	Design, BFA	61
University Academics	34	Media Arts, BFA	64
NUpath	34	Media Arts with Concentration in Animation, BFA	66

Media Arts with Concentration in Photography, BFA	68	School of Journalism	116
Media Arts with Concentration in Video Arts, BFA	70	Journalism, BA	116
Studio Art, BFA	72	Computer Science and Journalism, BS	118
Digital Art and Game Design, BFA	73	Media and Screen Studies and Journalism, BA	120
Business Administration and Interactive Media, BS	75	Information Science and Journalism, BS	121
Computer Science and Digital Art, BS	78	Journalism, Minor	123
Computer Science and Interactive Media, BS	80	Media and Screen Studies	123
Graphic and Information Design and Mathematics, BS	83	Media and Screen Studies, BA	123
Animation, Minor	84	Communication Studies and Media and Screen Studies, BA	125
Art, Minor	84	Media and Screen Studies and English, BA	128
Art History, Minor	85	Media and Screen Studies and Journalism, BA	130
Experience Design, Minor	85	Media and Screen Studies and Philosophy, BA	131
Game Art, Minor	86	Media and Screen Studies and Political Science, BA	133
Graphic and Information Design, Minor	86	Media and Screen Studies and Sociology, BA	134
Interaction Design, Minor	87	Media and Screen Studies and Theatre, BA	135
Photography, Minor	87	Media and Screen Studies and Theatre, BS	136
Video Arts, Minor	88	Cinema Studies, Minor	138
Communication Studies	88	Film Production, Minor	138
Communication Studies, BA	89	Media and Screen Studies, Minor	138
Communication Studies and Media and Screen Studies, BA	91	Music	138
Communication Studies and Sociology, BA	93	Music, BA	140
Computer Science and Communication Studies, BS	95	Music with Concentration in Music Composition and Technology, BS	142
English and Communication Studies, BA	96	Music with Concentration in Music Industry, BS	144
Human Services and Communication Studies, BA	99	Computer Science and Music with Concentration in Music Composition and Technology, BS	147
Media Arts and Communication Studies, BA	100	Music and Communication Studies with Concentration in Music Industry, BS	149
Music and Communication Studies With Concentration in Music Industry, BS	101	Physics and Music with Concentration in Music Composition and Technology, BS	150
Political Science and Communication Studies, BA	103	Music, Minor	151
Political Science and Communication Studies, BS	105	Ethnomusicology, Minor	151
Communication Studies, Minor	107	Music Composition, Minor	152
Media Production, Minor	107	Music Industry, Minor	152
Oratory and Public Speaking, Minor	107	Music Performance, Minor	152
Political Communication, Minor	108	Music Recording, Minor	153
Professional Presentation, Minor	108	Musical Theatre, Minor	154
Rhetoric, Minor	108	Songwriting, Minor	154
Social Activism, Minor	108	NEC/NU Joint Certificate Program—General Certificate of Merit in Music Performance	154
Game Design	109	NEC/NU Joint Certificate Program—Professional Studies Certificate in Music Performance	155
Games, BFA	110	Theatre	157
Digital Art and Game Design, BFA	111	Theatre, BA	158
Computer Science and Game Development, BS	113		
Game Design, Minor	115		
Game Art, Minor	115		

Media and Screen Studies and Theatre, BA	160	Computer Science and Business Administration, BS	231
Theatre, BS	161	Economics and Business Administration, BS	235
Media and Screen Studies and Theatre, BS	164	Information Science and Business Administration, BS	237
American Sign Language and Theatre, BS	165	Mathematics and Business Administration, BS	240
Theatre, Minor	166	Political Science and Business Administration, BS	243
Musical Theatre, Minor	167	Business Administration PlusOne Programs	246
Professional Presentation, Minor	167	Bachelor of Science in Business Administration with Concentration in Finance, BSBA/Master of Science in Finance, MSF	193
D'Amore-McKim School of Business	168	Bachelor of Science in International Business, BSIB/International Management, MSIM	249
Accounting	169	Minors	252
Bachelor of Science in Business Administration with Concentration in Accounting, BSBA	170	Business Administration, Minor	252
Bachelor of Science in International Business with Concentration in Accounting, BSIB	173	Emerging Markets, Minor	252
Entrepreneurship and Innovation	177	Entrepreneurship, Minor	253
Bachelor of Science in Business Administration with Concentration in Entrepreneurship and Innovation, BSBA	178	Global Social Entrepreneurship, Minor	253
Bachelor of Science in International Business with Conc. in Entrepreneurship and Innovation, BSIB	182	Sustainable Business Practices, Minor	254
Finance	185	College of Computer and Information Science	256
Bachelor of Science in Business Administration with Concentration in Finance, BSBA	186	Computer Science	256
Bachelor of Science in International Business with Concentration in Finance, BSIB	189	Computer Science, BSCS	257
Bachelor of Science in Business Administration with Concentration in Finance, BSBA/Master of Science in Finance, MSF	193	Computer Science with Concentration in Cyber Operations, BSCS	260
Management	196	Computer Science, BACS	262
Bachelor of Science in Business Administration with Concentration in Management, BSBA	196	Computer Science, BSCS/MSCS	264
Bachelor of Science in International Business with Concentration in Management, BSIB	200	Computer Science, Minor	266
Management Information Systems	204	Information Science	268
Bachelor of Science in Business Administration with Concentration in Management Info. Systems, BSBA	204	Information Science, BSIS	268
Bachelor of Science in International Business with Conc. in Management Information Systems, BSIB	208	Information Science, Minor	270
Marketing	212	Data Science	272
Bachelor of Science in Business Administration with Concentration in Marketing, BSBA	212	Data Science, BS	272
Bachelor of Science in International Business with Concentration in Marketing, BSIB	216	Computer and Information Science Combined Majors	274
Supply Chain Management	220	Computer Science and Information Science, BS	275
Bachelor of Science in Business Administration with Concentration in Supply Chain Management, BSBA	220	Computer Engineering and Computer Science, BSCompE	276
Bachelor of Science in International Business with Concentration in Supply Chain Management, BSIB	224	Computer Science and Biology, BS	279
Business Administration Combined Majors	228	Computer Science and Business Administration, BS	281
Business Administration and Interactive Media, BS	228	Computer Science and Cognitive Psychology, BS	285
		Computer Science and Communication Studies, BS	288
		Computer Science and Criminal Justice, BS	290
		Computer Science and Digital Art, BS	293
		Computer Science and English, BS	295
		Computer Science and Environmental Science, BS	298
		Computer Science and Game Development, BS	300
		Computer Science and History, BS	302
		Computer Science and Interactive Media, BS	306

Computer Science and Journalism, BS	309	Computer Engineering, BS/Engineering Management, MS	397
Computer Science and Linguistics, BS	310	Electrical Engineering, BS/Electrical and Computer Engineering, MS	397
Computer Science and Mathematics, BS	312	Electrical Engineering, BS/Engineering Management, MS	399
Computer Science and Mathematics, BS/MS	314	Biomedical Engineering, Minor	399
Computer Science and Music with Concentration in Music Composition and Technology, BS	316	Computational Data Analytics, Minor	400
Computer Science and Philosophy, BS	318	Computer Engineering, Minor	401
Computer Science and Physics, BS	320	Electrical Engineering, Minor	401
Computer Science and Sociology, BS	322	Mechanical and Industrial Engineering	402
Information Science and Business Administration, BS	325	Industrial Engineering, BSIE	403
Information Science and Cognitive Psychology, BS	329	Mechanical Engineering, BSME	405
Information Science and Environmental Science, BS	331	Mechanical Engineering and Physics, BSME	408
Information Science and Journalism, BS	333	Industrial Engineering, BSIE/MS	409
College of Engineering	335	Industrial Engineering, BSIE/ Energy Systems, MS	412
Interdisciplinary Minors	336	Industrial Engineering, BSIE/Engineering Management, MS	415
Entrepreneurial Engineering, Minor	336	Industrial Engineering, BSIE/ Operations Research, MS	418
Materials Science and Engineering, Minor	337	Mechanical Engineering, BS/MS	422
Sustainable Energy Systems, Minor	337	Mechanical Engineering, BS/Energy Systems, MS	425
Bioengineering	338	Mechanical Engineering, BS/ Engineering Management, MS	428
Bioengineering, BSBioE	339	Biomechanical Engineering, Minor	431
Bioengineering, BSBioE/Engineering Management, MS	342	Industrial Engineering, Minor	432
Bioengineering, BSBioE/MS	346	Mechanical Engineering, Minor	432
Chemical Engineering	349	Bouvé College of Health Sciences	433
Chemical Engineering, BSCHE	350	Communication Sciences and Disorders	434
Chemical Engineering and Physics, BSCHE	353	Communication Sciences and Disorders, Minor	435
Chemical Engineering, BS/MS	355	Speech-Language Pathology and Audiology, Minor	436
Chemical Engineering, BS/ Engineering Management, MS	358	Health Sciences	436
Biochemical Engineering, Minor	361	Health Science, BS	437
Civil and Environmental Engineering	362	Health Science, BS/MPH	438
Civil Engineering, BSCE	362	Health Science, Minor	439
Civil Engineering, BS/MS	365	Exercise Science, Minor	440
Civil Engineering, BS/ Engineering Management, MS	369	Interdisciplinary	440
Civil Engineering, BS/ Sustainable Building Systems, MS	373	Early Intervention, Minor	440
Electrical and Computer Engineering	376	Physical Therapy, Movement, and Rehabilitation Sciences	440
Computer Engineering, BSCompE	378	Rehabilitation Studies, BS	442
Computer Engineering and Computer Science, BSCompE	381	Physical Therapy, DPT	443
Computer Engineering and Physics, BSCompE	384	School of Nursing	445
Electrical Engineering, BSEE	386	Nursing, BSN	446
Electrical Engineering and Physics, BSEE	389	Nursing (BSN), Accelerated Program for Second-Degree Students	448
Electrical and Computer Engineering, BSEE or BSCompE	391	School of Pharmacy	448
Applied Physics, BS/Engineering, MS	394	Pharmaceutical Sciences, BS	450
Computer Engineering, BS/Electrical and Computer Engineering, MS	395		

Pharmacy Studies, BS	451	Environmental Geology and Chemistry, BS	507
Pharmacy, PharmD	453	Information Science and Environmental Science, BS	509
College of Science	457	Environmental Science, Minor	510
Behavioral Neuroscience	457	Environmental Geology, Minor	511
Behavioral Neuroscience, BS	458	Geology, Minor	511
Behavioral Neuroscience, Minor	460	Marine Biology, Minor	512
Biochemistry	461	Marine Studies, Minor	512
Biochemistry, BS	461	Mathematics	513
Biochemistry/Biotechnology, BS/MS	463	Mathematics, BA	514
Biology	464	Mathematics, BS	515
Biology, BS	465	Biology and Mathematics, BS	517
Cell and Molecular Biology, BS	466	Computer Science and Mathematics, BS	518
Biology and English, BS	467	Economics and Mathematics, BS	520
Biology and Mathematics, BS	470	Graphic and Information Design and Mathematics, BS	521
Biology and Political Science, BS	471	Mathematics and Business Administration, BS	522
Computer Science and Biology, BS	473	Mathematics and Physics, BS	525
Biology, BS/Biotechnology, MS	475	Computer Science and Mathematics, BS/MS	526
Biology, BS/PhD	476	Mathematics, BS/MS	527
Biology, Minor	477	Mathematics, Minor	528
Chemistry and Chemical Biology	477	Physics	529
Chemistry, BS	478	Physics, BS	530
Environmental Geology and Chemistry, BS	480	Applied Physics, BS	534
Chemistry, BS/MS	481	Biomedical Physics, BS	539
Chemistry, Minor	482	Computer Science and Physics, BS	544
Environmental Studies	482	Mathematics and Physics, BS	547
Environmental Studies, BA	482	Physics and Music with Concentration in Music Composition and Technology, BS	548
Environmental Studies and Economics, BS	482	Physics and Philosophy, BS	549
Environmental Studies and History, BA	482	Chemical Engineering and Physics, BSCHE	550
Environmental Studies and International Affairs, BA	482	Computer Engineering and Physics, BSCompE	552
Environmental Studies and Philosophy, BA	482	Electrical Engineering and Physics, BSEE	554
Environmental Studies and Political Science, BA	482	Mechanical Engineering and Physics, BSME	556
Environmental Studies, Minor	482	Physics, BS/MS	558
Linguistics	482	Applied Physics, BS/Engineering, MS	559
Linguistics, BS	483	Physics, BS/PhD	560
Computer Science and Linguistics, BS	485	Physics, Minor	560
Linguistics and Cultural Anthropology, BS	487	Psychology	560
Linguistics and Psychology, BS	488	Psychology, BS	561
Linguistics and English, BA	490	American Sign Language and Psychology, BS	565
Linguistics, Minor	493	Computer Science and Cognitive Psychology, BS	566
Marine and Environmental Sciences	493	Criminal Justice and Psychology, BS	568
Environmental Science, BS	494	Information Science and Cognitive Psychology, BS	569
Marine Biology, BS	499	Linguistics and Psychology, BS	572
Computer Science and Environmental Science, BS	505		

Psychology, Minor	574	Economics, BS/MA	628
College of Social Sciences and Humanities	575	Economics, Minor	629
Interdisciplinary	575	English	630
Politics, Philosophy, and Economics, BS	575	English, BA	630
Food Systems Sustainability, Health, and Equity, Minor	578	Computer Science and English, BS	633
Latino/a, Latin American and Caribbean Studies, Minor	579	English and Communication Studies, BA	636
Law and Public Policy, Minor	579	English and Cultural Anthropology, BA	638
Urban Studies, Minor	580	English and Graphic and Information Design, BA	640
Women's, Gender, and Sexuality Studies, Minor	581	Linguistics and English, BA	642
African-American Studies	582	Media and Screen Studies and English, BA	645
African-American Studies, BA	582	Biology and English, BS	647
African-American Studies, BS	584	English, BA/MA	649
African Studies, Minor	586	English, Minor	652
African-American Studies, Minor	586	Rhetoric, Minor	652
American Sign Language–English Interpreting	586	Writing, Minor	652
American Sign Language, BS	587	History	652
American Sign Language and Human Services, BS	588	History, BA	653
American Sign Language and Psychology, BS	588	Environmental Studies and History, BA	656
American Sign Language and Theatre, BS	590	History, BS	657
American Sign Language, Minor	591	Computer Science and History, BS	660
Asian Studies	591	History, BA/MA	664
Asian Studies, BA	592	History, BS/MA	666
East Asian Studies, Minor	593	History, BA/JD	668
School of Criminology and Criminal Justice	594	History, BS/JD	668
Criminal Justice, BS	594	History, Minor	668
Computer Science and Criminal Justice, BS	597	Human Services	668
Criminal Justice and Political Science, BS	600	Human Services, BA	669
Criminal Justice and Psychology, BS	602	Human Services, BA/MS	671
Human Services and Criminal Justice, BS	603	Human Services and International Affairs, BA	673
Criminal Justice, BS/MS	605	Human Services and Sociology, BA	677
Criminal Justice, BS/JD	606	Human Services, BS	678
Criminal Justice, Minor	607	Human Services, BS/MS	681
Economics	608	American Sign Language and Human Services, BS	682
Economics, BA	609	Human Services and Communication Studies, BA	683
Economics, BS	610	Human Services and Criminal Justice, BS	684
International Affairs and Economics, BA	612	Human Services and Sociology, BS	686
Political Science and Economics, BA	616	Human Services, Minor	688
Political Science and Economics, BS	619	International Affairs	688
Economics and Business Administration, BS	621	International Affairs, BA	688
Economics and Mathematics, BS	624	International Affairs with African Studies Concentration, BA	692
Economics and Philosophy, BS	624	International Affairs with Asian Studies Concentration, BA	694
Environmental Studies and Economics, BS	625		
Economics, BA/MA	626		

International Affairs with European Studies Concentration, BA	696	Jewish Studies and Religion, BA	777
International Affairs with Latin American Studies Concentration, BA	698	Philosophy, BA/JD	780
International Affairs with Middle East Studies Concentration, BA	699	Philosophy, BS/JD	780
Environmental Studies and International Affairs, BA	701	Philosophy, Minor	780
Human Services and International Affairs, BA	705	Religious Studies, Minor	780
International Affairs and Cultural Anthropology, BA	709	Ethics, Minor	781
International Affairs and Economics, BA	712	Political Science	782
International Affairs and Religious Studies, BA	716	Political Science, BA	782
Languages, Literatures, and Cultures and International Affairs, BA	721	Environmental Studies and Political Science, BA	786
Political Science and International Affairs, BA	725	Media and Screen Studies and Political Science, BA	788
International Affairs, Minor	731	Political Science and Communication Studies, BA	790
Middle East Studies, Minor	733	Political Science and Economics, BA	792
Jewish Studies	734	Political Science and International Affairs, BA	794
Jewish Studies and Religion, BA	734	Political Science and Philosophy, BA	799
Jewish Studies, Minor	738	Sociology and Political Science, BA	801
Languages, Literatures, and Cultures	739	Political Science, BS	803
Spanish, BA	739	Biology and Political Science, BS	806
Languages, Literatures, and Cultures and International Affairs, BA	740	Criminal Justice and Political Science, BS	808
Arabic, Minor	745	Political Science and Business Administration, BS	810
Chinese, Minor	745	Political Science and Communication Studies, BS	813
Film and International Cultures, Minor	746	Political Science and Economics, BS	815
French, Minor	746	Political Science and Philosophy, BS	817
Italian, Minor	746	Political Science, BA/MA	819
Japanese, Minor	747	Political Science, BA/MPA	821
Portuguese, Minor	747	Political Science, BA/Security and Resilience Studies, MS	823
Russian, Minor	748	Political Science, BA/JD	827
Spanish, Minor	748	Political Science, BS/MA	827
Philosophy and Religion	748	Political Science, BS/MPA	829
Philosophy, BA	749	Political Science, BS/Security and Resilience Studies, MS	832
Religious Studies, BA	755	Political Science, BS/JD	835
Computer Science and Philosophy, BS	757	Political Science, Minor	835
Environmental Studies and Philosophy, BA	759	American Political Institutions, Minor	836
International Affairs and Religious Studies, BA	760	International Security Studies, Minor	836
Media and Screen Studies and Philosophy, BA	764	Sociology and Anthropology	836
Political Science and Philosophy, BA	766	Sociology, BA	837
Philosophy, BS	767	Cultural Anthropology, BA	839
Economics and Philosophy, BS	773	Sociology and Cultural Anthropology, BA	840
Physics and Philosophy, BS	773	Communication Studies and Sociology, BA	841
Political Science and Philosophy, BS	775	Computer Science and Sociology, BS	843
		English and Cultural Anthropology, BA	846
		Human Services and Sociology, BA	848
		International Affairs and Cultural Anthropology, BA	849
		Media and Screen Studies and Sociology, BA	852

Sociology and Political Science, BA	853
Sociology, BS	855
Cultural Anthropology, BS	857
Sociology and Cultural Anthropology, BS	858
Human Services and Sociology, BS	859
Linguistics and Cultural Anthropology, BS	860
Sociology, BA/MA	862
Sociology, BS/MA	863
Sociology, Minor	864
Cultural Anthropology, Minor	864
University Faculty	865
Appendix	901
Governing Boards and Officers of Northeastern	901
Administrative Organization	902
Statements of Accreditation	903
Resources	905
General Information	905
Index	907

Admission

- Admission Policy and Entrance Requirements (p. 9)
- University Honors Program (p. 12)
- Specialized Entry Programs (p. 12)
- Merit Scholarships (p. 13)

Admission Policy and Entrance Requirements

Admission to Northeastern is selective, and the complexity of the admission process is not one that can be defined through a formula. At Northeastern, we evaluate applicants holistically to identify candidates who will bring a diversity of experiences and interest to our community. Each year, approximately 2,800 new freshmen and 400 new transfer students enroll in September. In addition, approximately 800 new students will enroll in January through 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 semester¹ and start their studies on campus in Boston in the spring semester. See additional information about The N.U.*in* Program.

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

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

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

Northeastern accepts the Common Application and the Coalition Application. Students may apply online via the Common Application (<http://www.commonapp.org>) or the Coalition Application (<http://www.coalitionforcollegeaccess.org>). Northeastern does not have a preference for which application is submitted. Both the Common Application and the Coalition Application will be reviewed equally.

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

Interested applicants may apply for entrance into either the fall or spring semester. For application deadlines, visit the admissions website (<https://www.northeastern.edu/admissions>).

- Northeastern offers a nonbinding Early Action application process and a binding Early Decision process for freshman applicants.
- Northeastern also offers a Regular Decision application process for freshman applicants.
- Transfer decisions are not released on a rolling basis, and all decisions are released by a given date.

Required Materials

The committee will begin to evaluate an applicant's candidacy for admission only when all application credentials have been received. Ensure that all appropriate identification information is on every piece of your application package (name, date of birth, and NU ID).

FRESHMAN APPLICANTS

More than 51,000 students apply for a space in the freshman class. As the vast majority of applicants are academically eligible for admission, the committee has the responsibility of selecting applicants for admission who it believes will contribute to Northeastern's diverse and vibrant community. The committee is particularly interested in applicants who have challenged themselves academically; are highly motivated; have a strong work ethic; and who have demonstrated qualities of leadership, creativity, diversity, engagement, global perspective, adaptability, and resiliency. Our students exhibit strong character, high ethical standards, and a commitment to involvement and to being a positive influence in their community and in the world. We encourage applicants to spend time to thoughtfully prepare their application in order to make sure their strengths and qualities resonate with the Admission Committee.

In addition to the Common Application, prospective freshmen must submit the following:

- Completed Common Application (<http://www.commonapp.org>) or Coalition Application (<http://www.coalitionforcollegeaccess.org>).
- 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. If you have been out of high school for more than one year, you must send the most up-to-date version of your transcript. Transcripts should be evaluated by a recognized credentialing agency.
- Early Decision Agreement for students applying under the binding Early Decision process.
- 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. November test scores will be considered for early action and early decision candidates if received by December 1; January test scores for regular decision candidates if received by February 15.* For detailed testing requirements see the admissions website (<https://www.northeastern.edu/admissions>).
- Portfolios are required for music technology, studio art, and are encouraged for majors within the College of Arts, Media and Design. Additionally, all portfolio submissions will be considered for the Creative Leaders Program. Northeastern uses SlideRoom (<https://www.northeastern.edu/admissions/application-information>) for online portfolio submissions. See additional information (p. 12).

- 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. Home-schooled students must submit either the SAT exam or the ACT. In addition to the ACT or SAT, two SAT subject tests, including mathematics and an additional subject test of the student's choice, are required. Students who are applying for majors in the Bouvé College of Health Sciences, the College of Computer and Information Science, or the College of Science should take a science subject test as their second exam. Applicants to the College of Engineering should take the physics subject test unless they are applying for chemical engineering, in which case the chemistry subject test is required.
- For 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 senior English) or must have earned the GED. In addition to the required materials for freshman applicants, early high school graduate applicants must provide written endorsement from the school principal or guidance counselor, as well as parents. The endorsements should speak directly to the applicants' academic readiness and emotional maturity for college. An interview may also be required.
- 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. Even if your English proficiency falls below our recommendations, we have the expertise and necessary academic infrastructure to support students who need to improve their English skills. Our support system includes many on-campus resources and a dedicated prematriculation program called American Classroom. For more information about English proficiency requirements, please visit the admissions website (<https://www.northeastern.edu/admissions>).
- 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, or student athletes who must meet NCAA eligibility requirements, are required to submit their official SAT or ACT results.
- Completed Common Application (<http://www.commonapp.org>) or Coalition Application (<http://www.coalitionforcollegeaccess.org>).
- 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 and 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. Even if your English proficiency falls below our recommendations, we have the expertise and necessary academic infrastructure to support students who need to improve their English skills. Our support system includes many on-campus resources and a dedicated prematriculation program called American Classroom. For more information about English proficiency requirements, please visit SlideRoom (<https://www.northeastern.edu/admissions/application-information>).
- Portfolios are required for music technology, studio art, and are 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. 12).

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 (<https://www.northeastern.edu/admissions/application-information/credit>)."

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 ten years ago and math and science course work completed more than five years ago can be considered by faculty upon enrollment for transfer credit.

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

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

There are additional requirements for applicants whose first language is not English. See additional information (p. 11).

TRANSFER APPLICANTS

Each year we receive over 3,000 applications for transfer admission. Our most competitive candidates for transfer admission typically have a grade-point average of 3.500 or higher.

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

should submit transcripts or test results before matriculation and must submit official score reports for credit evaluation within one semester of matriculation.

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

Northeastern currently awards advanced credit for the following examinations:

- Advanced Placement
- British GCE A-Level Examination
- German Abitur
- French Baccalaureate
- International Baccalaureate
- Swiss Federal Maturita Diploma

Advanced Placement Evaluations

The university awards credit for test scores of 4 and 5. Visit the Transfer Equivalency Database (<https://www.northeastern.edu/admissions/application-information/credit>) 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 Transfer Equivalency Database (<https://www.northeastern.edu/admissions/application-information/credit>) 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.

INTERNATIONAL APPLICANTS

Northeastern accepts the Common Application. Students may apply online via the Common Application (<http://www.commonapp.org>) or the Coalition Application (<http://www.coalitionforcollegeaccess.org>).

International student applications are reviewed considering their performance in their particular academic environments. As a result, SAT or ACT scores are not required for international applicants who are studying at schools located outside the United States (Department of Defense school students are required to submit SAT or ACT scores). However, applicants who attend a high school in the United States or who are student-athletes who must meet National Collegiate Athletic Association eligibility requirements are required to submit test 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), 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 ten 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 thirty 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). A list of accepted English proficiency examinations and the required minimum passing scores are available at the admissions website (<https://www.northeastern.edu/admissions>). 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 Program for Undeclared Students.

We encourage students to select a major that reflects their current academic interests and aspirations; however, the 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 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 program, co-op. 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 eighteen months of full-time experiential learning opportunities. 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. Students are generally not required to make a decision about their time to degree until the end of the freshman year. By participating in NUterm, students take advantage of Northeastern's signature flexibility, beginning their sophomore year with an additional half term completed. Some specific programs require more than five years to complete. In general, these have been structured so that students are considered to be undergraduates for their first five years and then transition to graduate status within the program. See the detailed curricula in this catalog for more information.

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

Admission Requirements for the College of Arts, Media and Design**GUIDELINES FOR PORTFOLIO SUBMISSION**

All portfolios should be submitted electronically via SlideRoom (<https://www.northeastern.edu/admissions/application-information>). Hard-copy portfolios will not be accepted and cannot be reviewed. Only portfolios from applicants to the College of Arts, Media and Design are reviewed; there is no portfolio review process for other majors. Refer to the undergraduate admissions website (<https://www.northeastern.edu/admissions>) for additional portfolio submission guidelines.

CREATIVE LEADERS PROGRAM

Applicants interested in consideration for the Creative Leaders Program are welcome to submit a portfolio through SlideRoom (<https://www.northeastern.edu/admissions/application-information>) to be considered for admission to the program. For updated guidelines for admission and for creating a portfolio, go to the Creative Leaders website (<http://www.northeastern.edu/camd/academics/undergraduate/creative-leaders>).

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 (<http://www.northeastern.edu/admissions/application-information>). This portfolio requires a minimum of fifteen 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

For candidates applying for admission into the music composition and technology concentration, a portfolio submitted through SlideRoom (<https://www.northeastern.edu/admissions/application-information>) is required. The portfolio must include:

- Three representative examples of your creative work in a form that best represents the project, including lead sheets of original songs or printed scores of original compositions or arrangements in digital format. Audio recordings of compositions are highly recommended. Video recordings of live performances of your music are also acceptable.
- A short statement explaining your involvement in the creation of the work. The statement should note whether you are the sole creator or a collaborator; the composer, arranger, or remixer; and whether you are performing the work on the recording(s).
- A separate, one-page statement of your musical background, influences, and goals.

Should music composition and technology faculty determine that they would like additional information, they may arrange an interview with the applicant. Visit the music composition and technology website (<http://www.northeastern.edu/camd/music/academic-programs/bs-in-music-composition-and-technology>) for more information.

MUSIC PERFORMANCE

Once enrolled, students in any music concentration may also audition to pursue a minor in musical performance. This program is highly competitive and therefore requires evaluation by the Department of Music. To schedule an audition contact Professor Won Hee An, program director for music performance, via email at w.an@northeastern.edu. Auditions are typically scheduled during a student's first semester at Northeastern. For specific questions regarding the program or audition requirements, contact Professor An.

University Honors Program

Exceptionally motivated students who are seeking an opportunity to enhance their educational experience may be invited to join the University Honors Program. The honors community is an active group of intellectually engaged students who are committed to making a difference at home and in the world. They benefit from unique and challenging academic opportunities, personalized advising, stimulating events, and participation in the honors living and learning communities. Only the most highly accomplished and motivated applicants to Northeastern are invited into the University Honors Program. These students will be notified of their selection in their letter of admission. There is no separate application to the Honors Program. Only students admitted for the fall semester are eligible for consideration.

Specialized Entry Programs

Northeastern University provides innovative admission and enrollment programs and opportunities that advance the university's mission and help meet students' needs. Students who apply for admission to Northeastern, based on their credentials, may be automatically offered direct entry into some of these programs and, in some cases, may be referred for consideration into other programs. Northeastern is

continually assessing our specialized entry programs and opportunities, and additional programs and opportunities may become available while existing programs and opportunities may be modified. For a complete list of our specialized programs and opportunities, 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 credits that will be valid at Northeastern and enroll in classes as part of the Northeastern community in the spring. These transfer credits earned may only be valid at Northeastern. Other institutions may not accept these credits. Participants have studied at partner institutions located in Australia, Canada, Costa Rica, England, Greece, Ireland, and Spain in past years.

General Studies Program

General Studies is a first-year program designed to help Northeastern students find academic success in their freshman year and beyond. General Studies students spend their freshman year immersed in a combination of first-year requirements, NUpath courses, and introductory courses for their intended major. See additional information (p. 44).

Foundation Year

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

Torch Scholars Program

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

The American Classroom Program

The American Classroom is an academic English-language program for motivated students who are interested in matriculating into an undergraduate degree program at Northeastern. Students in the program take classes to improve their English-language skills while also participating in credit-bearing academic courses offered through the College of Professional Studies. Service-learning is a defining characteristic of the American Classroom curriculum. Students in the program engage in weekly community service work, giving them an opportunity to engage in the Boston community, connect their studies to the real world, build experience for their resumé, and exercise their English-language skills. Students may apply directly to the program or they may be referred to the program through the undergraduate admission process. Students who are referred to the American Classroom Program have usually met all the necessary requirements for undergraduate admission but have not yet achieved sufficient English-language proficiency. The referral entails placement in one of two phases of the American Classroom Program and a conditional offer of admission to Northeastern upon successful completion of the program.

U.S. Pathways Program

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

Merit Scholarships

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

National Merit Finalist and National Hispanic Scholar Scholarships

Award: Up to a \$30,000 per year 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: Partial tuition scholarships ranging from \$10,000 to \$25,000. Recipients who maintain normal progress toward a degree, with a minimum grade-point average of 3.000, may renew these awards.

Eligibility: The top 10 percent to 15 percent of freshman applicants may be considered for these highly selective awards.

University Scholars Program

Launched in fall 2012, the Northeastern University Scholars Program is a full tuition scholarship program offered to a limited number of students. Individuals invited to join this program have distinguished themselves academically; displayed an entrepreneurial approach to study, achievement, involvement, and life; and have demonstrated curiosity and creativity that extend far beyond the classroom to impact the world around them. The program is intended to meet the interests of students who demand to be challenged, are passionate about learning, and will innovate when given the freedom to explore. Students invited to join the University Scholars Program will be notified of their selection in their letter of admission. There is no separate application, and only students admitted to the fall semester are considered for this program. Scholars will also be expected to participate in Northeastern's Civic Engagement Program and complete 100 hours of community service each year.

Phi Theta Kappa Scholarships (Transfer Students Only)

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

Eligibility: Applicants for fall transfer admission who have earned a 3.500 grade-point average in 32 semester hours or equivalent quarter hours or units of college-level course work. For eligibility, you must be a U.S. citizen or a permanent resident enrolling directly from a two-year institution 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, 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, 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. Scholars receive the Ujima Global Leadership Award, and those with demonstrated need will have their full need met. Scholars will also be expected to participate in Northeastern's Civic Engagement Program and complete fifty hours of community service each year.

The International Scholars Awards

Northeastern University does not offer need-based assistance to international students.

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

Eligibility: The top 10 percent to 15 percent of international freshman applicants may be considered for these awards.

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 (p. 15)
- Orientation for International Students (p. 15)
- Parent/Family Programs (p. 15)
- Residential Life (p. 15)
- Health Requirements—University Health and Counseling Services (UHCS) (p. 16)
- English-Language Testing (p. 16)
- Accommodations for Students with Disabilities (p. 16)
- We Care (p. 16)

Student Orientation

It is **mandatory** for all new undergraduate students to participate in an orientation program. Students beginning in September will participate in sessions throughout the summer. Those starting in January will participate in a session that will precede the start of the semester. At orientation, students will have the opportunity to learn their way around campus and Boston, as well as 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 participate in a variety of activities that will help them meet their fellow classmates. Once a student officially commits to the university by paying the enrollment fee, they will have the ability to register for orientation through the Admitted Student Portal.

For additional information, contact the Office of Student Orientation and Parent/Family Programs at 800.696.6516 or visit the office website (<http://www.northeastern.edu/orientation>).

Note: International students are required to participate in *both* Student Orientation and the International Student Orientation, hosted by the Office of Global Services (OGS) (<http://www.northeastern.edu/ogs>). Both programs take place at the time of move-in, preceding the start of the academic semester.

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 also serves as a primary resource for parents and families seeking information on important dates, events, and campus news. As part of the university's effort to stay connected to parents and families, we encourage you to read our electronic newsletter, Parent Matters, and visit our Parent Corner Message Board.

Parents and guardians of students may also create an online Parent Portal account, through which they may be granted access (by the student) to services related to their experiences. Parents may create an account by visiting the myNEU web portal (<http://myneu.neu.edu>).

For additional information, contact the Office of Student Orientation and Parent/Family Programs at 800.696.6516 or visit the office website (<http://www.northeastern.edu/parents>).

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. Students should provide documentation to the DRC at their earliest convenience to allow for sufficient time for review. After the documentation has been reviewed, a disability specialist will contact the student regarding appropriate next steps. For additional information on the DRC, visit their website (<http://www.northeastern.edu/drc>) 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>)

College Expenses

Northeastern University is eager to assist you in developing a plan for financing a Northeastern education. Through a variety of options—financial aid, Northeastern’s Monthly Payment Plan, supplemental loans, and your own resources—a plan can be designed that will make your education costs affordable. Visit the Office of Student Financial Services (<http://www.northeastern.edu/financialaid>) online or call 617.373.3190.

- Financial Aid (p. 17)
- Student/Parent Loans (p. 17)
- Bill Payment (p. 17)
- Tuition, Room, Board, and Fees Per Semester (p. 19)

Financial Aid

For many families, financial aid is a major element in making Northeastern University affordable. The Office of Student Financial Services provides a full range of options that help students establish a comprehensive plan to finance their education. To apply for federal financial aid, freshmen and transfer students must submit the Free Application for Federal Student Aid (FAFSA). Additionally, for institutional aid consideration, freshmen and transfer students must also complete the CSS Profile form. Returning students must submit the FAFSA every year. Meeting priority filing dates will allow the review of your eligibility for all available financial aid programs. For information regarding your financial aid application, visit the myNEU web portal (<https://myneu.neu.edu>), click on the “Self-Service” tab, and select “My Financial Aid Status.”

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 the circumstances that caused the deficiencies 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.

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.

Northeastern’s Monthly Payment Plan

All full-time students have the option to enroll in Northeastern’s Monthly Payment Plan, which is administered through TuitionPay. This plan allows students and families to spread their annual tuition costs over nine, ten, or eleven months. Short-term plans are also available. For additional information, visit the financing options webpage (<http://www.northeastern.edu/financialaid/financingoptions>).

Student/Parent Loans

There are a number of educational loan program options available to assist students 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 our website at the financing options web page (<http://www.northeastern.edu/financialaid/financingoptions>). When researching the loan and lender that best meet your needs, make sure you take into consideration the interest rate, origination, disbursement, or repayment fees and the quality of customer service.

Bill Payment

Full payment of tuition, residence hall fees, and other related charges is 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 generated electronically and are available via the myNEU web portal (<http://myneu.neu.edu>). Paper bills are not generated. For additional information regarding the E-bill, please visit the billing frequently-asked-questions webpage (<http://www.northeastern.edu/financialaid/billingfaq>). For details on available payment methods, visit the payment methods webpage (<http://www.northeastern.edu/financialaid/paymentmethods>).

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. 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>) and 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 (<http://www.northeastern.edu/financialaid/tuitionandfees>) for a full listing of tuition rates. Also see "Overload Policy (p. 24)" and "Reduced Load Policies (p. 24)."

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

MUSC 1904	Chorus	1
MUSC 1905	Band	1
MUSC 1906	Orchestra	1
MUSC 1907	Wind Ensemble	1
MUSC 1911	Jazz Ensemble	1
MUSC 1912	Rock Ensemble	1
MUSC 1913	Blues/Rock Ensemble	1
MUSC 1914	Create Your Own Music	1
MUSC 1915	Chamber Ensemble	1
MUSC 1916	Contemporary Music Ensemble	1
MUSC 1917	Jazz Choir and Combo	1
MUSC 1918	World Music Ensemble	1
MUSC 1919	Fusion Ensemble	1
MUSC 1920	Pep Band	1
MUSC 1921	World Fusion Ensemble	1

Delinquent Balances

In cases of student default on tuition payments, the student may be withdrawn from the university and is liable for the outstanding tuition as well as for all reasonable collection costs and any legal fees incurred by the university during the collection process. Accounts may be subject to monthly interest charges. *Transcripts and other academic records will not be released until all financial obligations to the university have been met.*

Refunds on Credit Balances

To submit a request for a refund on a credit balance because of overpayment, a Student Refund Request must be submitted. This form can be completed through the student's myNEU web portal (<http://myneu.neu.edu>), under the "Self-Service" tab.

Visit the financial-aid policies webpage (<http://www.northeastern.edu/financialaid/policies>) for additional tips on expediting the processing of a request.

Refunds for Withdrawal from the University—General Information

Tuition credits 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 (<http://www.northeastern.edu/registrar/calendars.html>).

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

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

For information regarding policies that affect eligibility for federal grants and loans upon your withdrawal or adjustment to course enrollment, visit the financial aid website (<http://www.northeastern.edu/financialaid>). 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. 24)" and "Reduced Load Policies (p. 24)" 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 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

Full-time freshmen spend two semesters in classes and summer on vacation. 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 student services office so that you may plan accordingly.

Total Costs

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

TUITION AND FEES

	Per Full Semester	Per Summer Half Semester
Tuition	\$23,360	\$11,680
Student center fee	\$70	\$35
Student activities fee	\$127 (annual fee)	
Campus recreation fee	\$56	\$33
Undergraduate student fee	\$245	\$123

ROOM, BOARD, AND FEES PER SEMESTER

	Per Full Semester	Per Summer Half Semester
Residence activity fee	\$33	\$16.50
Housing	range from \$4,200–\$5,350 ¹	approximately 1/2 of semester rate ¹
Fifteen-meal plan ²	\$3,325	\$1,663

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. 21)” 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. 24)” and “Reduced Load Policies (p. 24).”)

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. These vary depending upon such things as lifestyle and distance from home, but 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 plan for tuition and fees better, 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 (although 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.

For students entering in September of 2016:

- All patterns of attendance require that students attend the first three full semesters (fall 2016, spring 2017, and fall 2017) before going on co-op.
- Students may choose to take classes during the summer half semesters between spring 2017 and fall 2017 but are not required to do so.
- Approximately half of the class entering in fall 2016 will go on co-op during the spring/summer 1 semesters of 2018 (January–June).
- The other half of that class will go on co-op during the summer 2/fall semesters (July–December).
- Most students will take classes during either summer 1 or summer 2 of 2018, during the time when they are not on co-op.

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, 2016, from students accepted for Early Decision and by May 2, 2016, from all other accepted freshman students entering in September 2016. A \$250 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) (p. 21) on campus. Housing is required for all first- and second-year students entering as freshmen. Students entering at other times of the year, and transfer students entering in September, should note the required deposit due date on their letter of admission.

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 subsequent enrollment services and support in addition to costs related to ongoing communication to students and parents. The \$245 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 to support the Curry Student Center and an annual student activities fee of \$127 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 the myNEU web portal (<http://myneu.neu.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 \$33 fee or half-semester \$16.50 fee for activities sponsored by the Residence Student Association.

LATE FEES

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

INTERNATIONAL STUDENT FEE

A one-time fee of \$250 is charged to new undergraduate international students. The fee supports programs and services available at the OGS.

Room and Board

ROOM RATES PER SEMESTER

Visit the Residential Life website (<http://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 wait list.

Students who withdraw from the university will have their meal plan charges prorated to the end of the week they complete the University Withdrawal Form in the Office of the Registrar. Students must also complete the official housing withdrawal form and check out properly with their resident 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 \$5,100 and you cancel your housing on June 20, 2016, you will be assessed 50 percent of your room rate, which is \$2,550—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 5/15/16	Before 10/1/16	Before 3/1/17	Before 4/15/17
25 percent of term room charge ¹	After 5/15/16	After 10/1/16	After 3/1/17	After 4/15/17
50 percent of term room charge ¹	After 6/15/16	After 10/15/16	After 3/15/17	After 4/30/17
75 percent of term room charge ¹	After 7/15/16	After 11/1/16	After 4/1/17	After 5/15/17
100 percent of term room charge ¹	After 8/1/16	After 12/1/16	After 4/15/17	After 5/29/17

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 Self-Service tab on the myNEU web portal (<http://www.myneu.neu.edu>).

Changes to the meal plan are made via the Self-Service tab on the myNEU web portal (<http://myneu.neu.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 2016–2017 are shown below. For updated meal plan rates, visit the tuition and fees webpage (<http://www.northeastern.edu/financialaid/tuitionandfees>).

Meals per Week	Full Semester	Summer Half Semester
19	\$3,600	\$1,800
15	\$3,325	\$1,663
10	\$2,880	\$1,440
5	\$1,475	\$738

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 2016–2017 are valid from August 28, 2016, through August 26, 2017, 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 2016–2017 are shown below. For updated rates, visit the tuition and fees webpage (<http://www.northeastern.edu/financialaid/tuitionandfees>).

Meals	Cost
25	\$405
50	\$790
86	\$1,330
110	\$1,670

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.

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

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

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

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

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

Visit the Office of Student Conduct and Conflict Resolution website (<http://www.northeastern.edu/osccr>) for a full description of these policies and procedures.

Honor Code

The following honor code was designed and approved by the Student Government Association:

On my honor, I pledge to uphold the values of honesty, integrity, and respect that are expected of me as a Northeastern student.

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. Students should provide documentation to the DRC at their earliest convenience to allow sufficient time for review. After the documentation has been reviewed, a disability specialist will contact the student regarding appropriate next steps. For additional information on the DRC, visit their website (<http://www.northeastern.edu/drc>) or contact staff at 617.373.2675.

Attendance Requirements

The university expects students to meet attendance requirements in all courses to qualify for credit. Attendance requirements vary; it is the student's responsibility to ascertain what each instructor requires. Failure to meet attendance requirements may force a student to drop the 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, however, that such make-up examination or work should not create an unreasonable burden upon such school. Students should make appropriate arrangements with the instructor in advance of the absence, preferably at least two weeks before the religious observance.

Absence Because of Jury Duty

Members of the university community are expected to fulfill their obligations to serve on a jury if called upon. A student selected for jury duty should inform his or her instructors. They will provide a reasonable substitute or compensatory opportunities for any required work missed. 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. 33)."

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

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

During the terms when they are teaching, faculty members are expected to provide sufficient conference time to meet the instructional and advising needs of their students.

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 and Th	11:45–1:25 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 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 (p. 18) without added charge as long as they are registered for a full course load.

Reduced Load Policies

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

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

International students must speak with an advisor at the 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 student services office to take courses on a semester-by-semester basis. Approval is based on the student's academic qualifications and on the availability of class space. If the college academic student services office approves the course enrollment, the student pays the bill and then returns the completed forms to the Office of the Registrar.

Dropping Courses

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

IN FALL AND SPRING SEMESTERS

- Through the third week of the semester, students may withdraw without any grade being posted to the transcript. Courses may be dropped via the myNEU web portal (<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 myNEU 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 myNEU 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 myNEU 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 myNEU 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 thirty 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

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. The period for clearing an incomplete grade and for changing a grade other than an incomplete or failure (F or U) is restricted to one calendar year from the date it is first recorded on the student's permanent record.

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

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

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

Any exception to this policy on change of grades must be recommended by the ASC of the college in which the course was offered and must be forwarded in writing by the dean to the 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 in the *Undergraduate Student Handbook*.

Grade-Point Average (GPA)

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

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. 26) 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 myNEU 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 myNEU web portal (<http://www.myneu.neu.edu>) and may also order official transcripts through myNEU. 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 60 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. 17)."

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. 27)” and “Clearing an Academic Deficiency (p. 27).”

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 web page. Note also that some colleges have deadlines for applications to change major, also indicated on the aforementioned web page.

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 coursework 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 sixteen courses in the combined major. The combined major should be declared by the end of the first semester of the junior year. It is generally advantageous to declare the combined major as early as possible, especially when highly structured disciplinary components are involved. There are three categories of combined majors:

1. A number of defined combined majors currently exist where the curriculum is specific to each individual program; 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. 37))
- 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 eighteen 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

Directory information: information that can be released to third parties without the prior consent of the student, unless the student specifically requests otherwise in accordance with the Office of the University Registrar's procedures. Although directory information may be released unless the student has notified the Office of the University Registrar otherwise, Northeastern considers each request on an individual basis.

Northeastern treats the following as directory information (the office listed has the most accurate and up-to-date information):

Office of the University Registrar

- 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

Department of Athletics

- Sports activity participation, showing weight/height of members of athletic teams

Center for Student Involvement

- Participation in officially recognized activities

Notification of Rights under FERPA

FERPA affords students certain rights with respect to their education records. These rights are:

1. The right to inspect and review the student's education records within forty-five days of the day the university receives a request for access. Students should submit to the registrar, dean, or head of the academic department (or appropriate official) written requests that identify the record(s) they wish to inspect. The university official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the university official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education record that the student believes is inaccurate or misleading. Students may ask the university to amend a record that they believe is inaccurate or misleading. They should write the university official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the university decides not to amend the record as requested by the student, the university will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interest. A school official is defined as a person employed by the university in an administrative, supervisory, academic, or support staff position (including law enforcement unit and health staff); a person or company with whom the university has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of 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, DC 20202-5920

FERPA and the USA Patriot Act

The USA Patriot Act preempts FERPA, described above. The act provides federal law enforcement agencies access to otherwise confidential student records upon the presentation of specified authority. The act also states that the university cannot notify the individual whose records or information is being sought that the request has been made. All requests for student information made under the authority of the USA Patriot Act are handled by the Office of the General Counsel, 716 Columbus Avenue.

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 Policy**

Students who wish to take a leave of absence are encouraged to apply for the leave by submitting a petition through the myNEU web portal (<http://www.myneu.neu.edu>) one month prior to the start of the effective semester. The usual limit for a leave of absence is for one or one-and-a-half academic semesters (a semester plus a half semester). A leave of absence (general, medical, or emergency), if approved, will take into account the following conditions:

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

International students must make an appointment with the Office of Global Services (OGS) (<http://www.northeastern.edu/ogs>) to discuss leave of absence procedures in accordance with federal regulations.

Students returning from an approved leave of absence must submit a notification of intent to return to their college academic student services office no later than one month prior to the start of the semester in which they intend to return. Students are required to preregister for courses upon returning from a leave of absence.

Medical or Emergency Leave of Absence

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

Students who wish to reenter the university following a medical leave must contact UHCS. Reentry from a medical leave requires receipt of all documentation delivered to UHCS on or around one month prior to

the planned reentry to classes. Once all documentation is received by UHCS, it will be reviewed and the student will be notified of the decision. Students must attend classes on the Northeastern campus for the semester they wish to return from medical leave of absence.

More specific information about the reentry process, along with the application for leave, can be found at the University Health and Counseling Services website (<http://www.northeastern.edu/uhcs/access>).

Emergency leaves may be granted when a student cannot continue attending class after the start of the term due to life-changing situations beyond the student's control. Students can access the application and submit their request for an Emergency Leave of Absence online by going to the myNEU web portal (<http://www.myneu.neu.edu>), clicking on the "Self-Service" tab, and selecting "Registrar Forms."

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 (p. 18)." 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.

For both medical and emergency leaves:

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

Leave of Absence Due to Military Deployment

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

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

- Excuse tuition for that semester. Any payment made will be credited to the student's account.

- Post a leave of absence for the semester to hold a place for the student when he or she returns.

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

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

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

Leave of Absence for International Students

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

University Withdrawal

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

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

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 the OGS before requesting or after having been placed on withdrawal.

- NUpath (p. 34)
- University-Wide Requirements (p. 38)
- Living and Learning Communities (p. 38)
- Experiential Learning (p. 38)
- Cooperative Education (p. 38)
- Research and Creative Activity (p. 39)
- Service-Learning (p. 40)
- Global Experience (p. 40)
- World Languages Center (p. 41)
- University Scholars Program (p. 41)
- University Honors Program (p. 41)
- Northeastern Explore Program (p. 41)
- Premedical and Other Preprofessional Health Career Preparation (p. 42)
- Prelaw Preparation (p. 42)
- Education (p. 42)
- Army, Air Force, and Navy Reserve Officers' Training Corps (ROTC) Programs (p. 43)
- General Studies Program (p. 44)
- About Sample Curricula (p. 44)
- Undergraduate Degrees (p. 44)

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 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.

- Requirements (p. 34)
- Learning Goals (p. 35)
- Writing-Intensive Courses (p. 37)
- Additional Requirements for BA Students (p. 37)

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. 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. 37), 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. 37).

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:

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	Introductory Writing—SOL (Speakers of Other Languages) and First-Year Writing for Multilingual Writers	8

Depending on performance in Introductory First-Year Writing (ENGW 1110) or Introductory Writing—SOL (Speakers of Other Languages) (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.

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: Introductory Writing—SOL (Speakers of Other Languages) (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. 34), 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.

Some sample schedules for the class entering in fall semester 2016 are shown below. Note that there are multiple possible schedules and

not all entering students will follow these particular examples. In all cases, however, the students will attend class on a full-time basis in fall semester 2016, spring semester 2017, fall semester 2017, and the final spring semester, either 2020 or 2021 in the schedules shown below.

Sample schedule—five-year, three-co-op program:

- Co-op in July–December of 2018, 2019, and 2020
- Full-time classes in spring semester of 2018, 2019, and 2020
- Full-time classes in summer 1 half semester of 2018 and 2019

Sample schedule—four-year, two-co-op program:

- Co-op in July–December of 2018 and 2019
- Full-time classes in spring semester of 2018 and 2019
- Full-time classes in summer 1 half semester of years 2018 and 2019
- 16 credits distributed among courses taken on co-op (on campus or online), heavier course loads in full-time terms, courses in summer 2017 and/or AP credit

Sample schedule—four-year, one-co-op program:

- Co-op in July–December of 2019
- Full-time classes in fall semester of 2018 and spring semester of 2019 and 2020
- Full-time classes in summer 1 half semester of years 2018 and 2019

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

1. Tuition is charged when a student is taking classes/earning academic credit. 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 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.

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.

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 register for co-op during the semester prior to the one when they plan to be on co-op. Just as for an academic course, they can register through the myNEU web portal (<http://www.myneu.neu.edu>). All co-op placements need to be approved by a co-op coordinator.

Co-op Documentation

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

Further Information

For more detailed information about co-op policies and procedures, 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>)

TBA

Director

Global Experience Office
403 Richards Hall
617.373.5276
617.373.5702 (fax)
geo@northeastern.edu

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

International Study

While studying abroad in a Northeastern-sponsored program, students maintain full-time Northeastern status and earn Northeastern credits. In all cases and upon successful completion of a program, grades are calculated in the student's grade-point average (GPA). The requirements for participation are at least two completed terms at Northeastern, one of which may be a summer term; a GPA of at least 2.500; and no registration-blocking holds. Students must also meet the requirements of the host institution abroad. Application deadlines are posted on the

Global Experience Office (GEO) website (<http://www.northeastern.edu/studyabroad>).

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

Types of Programs

Northeastern University offers four types of study-abroad programs, although not all types are appropriate for some majors:

1. **Semester.** Students are based at a host institution where they attend classes, participate in student activities, and organize their extracurricular schedules just as they do on campus at Northeastern. Some examples include Monash University in Melbourne, Australia; University of Edinburgh in Scotland, U.K.; London School of Economics in England, U.K.; and Meiji University in Tokyo, Japan.
2. **Faculty-Led Summer Programs/Dialogue of Civilizations Programs.** Open to Northeastern University students of any major, the Dialogue of Civilizations Programs are faculty-led study-abroad programs that include "global student exchanges" between students at Northeastern University and students around the world. The goals of each program are to connect Northeastern students with their peers in different national, cultural, political, and social environments and to provide Northeastern students with a global experience that builds upon and enhances their academic studies and training in Boston.
3. **Internship.** These programs offer a combination of classes and related work experience for which students earn academic credit. For example, students have interned with a member of the Australian Parliament in Canberra, the European Parliament in Brussels, the British Parliament in London, and the Irish Parliament in Dublin.
4. **International Research.** The focus of a student's time abroad is on an independent research project. In most cases, the study-abroad program organizes small group seminars and field trips that are designed to help students learn about their international environment and focus on a research topic. Students spend three to four weeks toward the end of the semester working on their individual projects. An example could be studying tropical biology in Costa Rica, history and culture in Vietnam, and oceanography while sailing in the Atlantic/Pacific Cruise Track of the SEA Semester Program.

Visit the GEO website (<http://www.northeastern.edu/studyabroad>) to see a complete list of program options.

International Co-op

The International Cooperative Education Program, administered through the Cooperative Education Office, provides students with opportunities to explore global career options, develop intercultural and political sensitivity, and utilize and strengthen foreign language skills. Northeastern students co-op on all seven continents with foreign and multinational employers, U.S. employers doing business abroad, and other international organizations. Students may apply for existing positions or work with 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 (<http://www.northeastern.edu/globalscholars>) provides financial support for international co-op.

World Languages Center

Dennis R. Cokely, PhD
Director

225B Renaissance Park
617.373.3064
617.373.3065 (fax)
Dennis R. Cokely, Director, d.cokely@northeastern.edu

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

Jonna Iacono, PhD
Director

411 Richards Hall
617.373.3202
617.373.6597 (fax)
universityscholars@northeastern.edu

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

Laurie Kramer, PhD
Director

150 Richards Hall
617.373.2333
617.373.5300 (fax)
honors@northeastern.edu

Exceptionally motivated students who are seeking an opportunity to enhance their educational experience may be invited to join the University Honors Program. The honors community is an active group of intellectually engaged students who are committed to making a difference at home and in the world. They benefit from unique and challenging academic opportunities, personalized advising, stimulating events, and participation in the honors living and learning communities. Only the most highly accomplished and motivated applicants to Northeastern are invited into the University Honors Program.

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. 29)."

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>)

Mya Mangawang, PhD

Associate Dean, Academic and Faculty Affairs,
Graduate School of Education

20 Belvidere

617.373.4216

617.373.6600 (fax)

Mya Mangawang, Associate Dean, m.mangawang@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. 43)

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).

Program Requirements

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, 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.

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**

Lieutenant Colonel Timothy J. Ferguson, MS

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 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

For information about transitioning to majors across the university, see "Changing Majors (p. 29)."

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 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

College of Arts, Media and Design

Website (<http://www.northeastern.edu/camd>)

Elizabeth Hudson, PhD, Dean

Alan J. Zaremba, PhD, 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

Academic Advising and Cooperative Education Office

100 Meserve Hall

617.373.5583

617.373.8719 (fax)

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 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 departments and program offices. Detailed advising information is available on the college website (<http://www.northeastern.edu/camd/advising>). Prelaw advising (<http://www.northeastern.edu/prelaw>) and premedical/pre dental advising (<http://www.northeastern.edu/prehealth>) are also available.

Academic Progression Standards

The College of Arts, Media and Design adheres to the university's academic progression standards (p. 28). 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 (<http://www.northeastern.edu/camd/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. 34). In addition, students pursuing a Bachelor of Arts degree (BA) must fulfill the BA requirements (p. 37).

School of Architecture

Website (<http://www.northeastern.edu/camd/architecture>)

Peter H. Wiederspahn, MArch

Associate Professor and Interim Director

151 Ryder Hall

617.373.4637

617.373.7080 (fax)

Architecture@northeastern.edu

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

The curriculum teaches students to conceptualize, synthesize, and represent complex architectural, urban, and environmental issues. The program focuses on core skills and critical thinking as preparation for both professional practice and advanced study. The curriculum in the design studio encompasses two major themes: First, the studio projects focus on the art of building and environmental performance, and second, the projects explore how designed environments—from buildings to regional infrastructures—affect urban conditions. The art of building includes the study of construction and technology, as well as the cultural messages created by the expression of material, structure, and form. Environmental performance includes imagining how we can live more

sustainably by developing innovative design solutions for synthesizing natural and urban conditions. The contemporary city is our laboratory. This urban focus requires that students integrate their own creative impulses with the future of the society of which they will be a part. By building on the practical and technical training afforded by co-op to develop core professional skills, the curriculum focuses on architecture and landscape architecture's fundamental aesthetic, technological, social, and political aspects.

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

External Transfers

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

There is no portfolio requirement for freshman applicants.

Academic Progression Standards

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

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

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 (<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. 30)." For template program requirements, visit the myNEU web portal (<http://www.myneu.neu.edu>), click on the "Self-Service" tab, then on "My Degree Audit."

Programs

Bachelor of Science (BS)

- Architecture (p. 47)
- Architectural Studies (p. 49)

Bachelor of Landscape Architecture (BLA)

- Landscape Architecture (p. 50)

Minors

- Architectural History (p. 51)
- Urban Landscape Studies (p. 52)

Architecture, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath 1–8 attributes ND, EI, IC, FQ, AD, and DD are met through the major course requirements. In order to graduate, the student must meet SI and ER in their electives.

Architecture Major Requirements

SEMESTER 1

ARCH 1000	Architecture at Northeastern	1
MATH 1241	Calculus 1	4
ARCH 1110	Fundamental Architectural Representation (Studio 1)	6
ARCH 1310 and ARCH 1311	Architecture and Global Cultures, Prehistory to 1400 and Recitation for ARCH 1310	4
ENGW 1111	First-Year Writing	4

SEMESTER 2

PHYS 1141	General Physics	4
ARCH 1120	Fundamental Architectural Design	6
ARCH 1320 and ARCH 1321	Architecture and Global Cultures, 1400 to Present and Recitation for ARCH 1320	4
EEAM 2000	Professional Development for Co-op	1
Elective		4

SEMESTER 3

ARCH 2130	Site, Space, and Program	6
ARCH 2330 and ARCH 2331	Architecture, Modernity, and the City, 1800 to 1910 and Recitation for ARCH 2330	4
ARCH 2240	Architectonic Systems	4
Elective		4

SEMESTER 4

ARCH 2140	Urban Institutions	6
ARCH 3450	Advanced Architectural Communication 1	4
ARCH 5210 and ARCH 5211	Environmental Systems and Recitation for ARCH 5210	4
Elective		4

SEMESTER 5

Abroad:		
ARCH 3155	Studio Abroad	6
ARCH 3361	Architecture and Urbanism Abroad	4
ARCH 3362	Seminar Abroad	4
Language or cultural elective		4

SEMESTER 6

ARCH 3170	Architecture, Infrastructure, and the City	6
ARCH 2230 and ARCH 2231	Structural Systems and Recitation for ARCH 2230	4
ENGW 3314 or ENGW 3315	Advanced Writing in the Arts, Media, and Design Interdisciplinary Advanced Writing in the Disciplines	4
ARCH 2340 and ARCH 2341	Architecture, Modernity, and the City, 1910 to 1980 and Recitation for ARCH 2340	4

SEMESTER 7

ARCH 3370	Topics in Architectural History	4
ARCH 5110	Housing and Aggregation	6
ARCH 5310	Design Tactics and Operations	4
Elective		4

SEMESTER 8

ARCH 5120	Comprehensive Design Studio	6
ARCH 5220	Integrated Building Systems	4

You may be required to complete two general elective or NU Core courses in semester 8. Contact your academic advisor to discuss your unique registration needs.

Cooperative Education

Architecture majors are required to complete two six-month co-ops.

COOP 3945	Co-op Work Experience
-----------	-----------------------

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

IMPORTANT NOTE

When registering for classes, note additional electives that are required. If you are taking less than 18 semester hours during fall or spring semesters, verify 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 1110	6	ARCH 1120	6	Vacation	0	Vacation	0
ARCH 1310 and ARCH 1311	4	ARCH 1320 and ARCH 1321	4				
MATH 1241	4	PHYS 1141	4				
Total		19		19		0	

ENGW 1111	4	EEAM 2000	1		
ARCH 1000	1	Elective	4		
Total		19		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 3450 ¹	4				
ARCH 2240	4	ARCH 5210 and ARCH 5211	4				
Elective	4	Elective	4				
Total		18		18		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ARCH 3155	6	Vacation	0	Vacation	0
		ARCH 3362	4				
		ARCH 3361	4				
		Language or cultural elective	4				
Total		0		18		0	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARCH 3170	6	ARCH 5110	6	Vacation	0	Co-op	0
ENGW 3314	4	ARCH 3370	4				
ARCH 2340 and ARCH 2341	4	ARCH 5310	4				
ARCH 2230 and ARCH 2231	4	Elective	4				
Total		18		18		0	

Year 5

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

Total Hours: 146

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 1110	6	ARCH 1120	6	Vacation	0	Vacation	0
ARCH 1310 and ARCH 1311	4	ARCH 1320 and ARCH 1321	4				
MATH 1241	4	PHYS 1141	4				
ENGW 1111	4	EEAM 2000	1				
ARCH 1000	1	Elective	4				
Total		19		19		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 3450 ¹	4		
ARCH 2240	4 ARCH 5210 and ARCH 5211	4		
Elective	4 Elective	4		
	18	18	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ARCH 3155	6 Co-op	0 Co-op	0 Vacation	
ARCH 3362	4			
ARCH 3361	4			
Language or cultural elective	4			
	18	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	
ARCH 2340 and ARCH 2341	4			
ARCH 2230 and ARCH 2231	4			
ENGW 3314	4			
	18	0	0	0

Year 5

Fall	Hours Spring	Hours
ARCH 5110	6 ARCH 5120	6
ARCH 3370	4 ARCH 5220	4
ARCH 5310	4 Elective	4
Elective	4 Elective	4
	18	18

Total Hours: 146

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

Architectural Studies, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath Requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Interpreting Culture (IC), Formal and Quantitative Reasoning (FQ), and Difference and Diversity (DD) are met through the major course requirements. All other NUpath requirements must be met through electives.

Architectural Studies Major Requirements

Breadth Courses

<i>Calculus</i>		
MATH 1241	Calculus 1	4
<i>Physics</i>		
PHYS 1141	General Physics	4
<i>Advanced Writing in the Disciplines</i>		
ENGW 3314	Advanced Writing in the Arts, Media, and Design	4
or ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines	

Architecture Requirements

<i>Introduction to College</i>		
ARCH 1000	Architecture at Northeastern	1
<i>Foundation Skills</i>		
ARCH 1110	Fundamental Architectural Representation	6
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 2330	Architecture, Modernity, and the City, 1800 to 1910	4
ARCH 2340	Architecture, Modernity, and the City, 1910 to 1980	4
<i>Co-op Preparation</i>		
EEAM 2000	Professional Development for Co-op	1
<i>Technology</i>		
ARCH 2260	Introduction to Building Systems	4
<i>Design</i>		
ARCH 2130	Site, Space, and Program	6
ARCH 2170	Urban Research Studio: Context, Sustainability, Development	6
<i>Studio</i>		
ARCH 3170	Architecture, Infrastructure, and the City	6
or ARCH 3155	Studio Abroad	
<i>Architecture Electives</i>		
Complete two of the following:		8
ARCH 3361	Architecture and Urbanism Abroad	
ARCH 3362	Seminar Abroad	
ARCH 3370	Topics in Architectural History	
ARCH 3450	Advanced Architectural Communication	
ARCH 5310	Design Tactics and Operations	

Cooperative Education

Architectural studies majors must complete at least one co-op:	0
COOP 3945 Co-op Work Experience	

Tracks

Complete one of the tracks listed below:

Design and Culture Track

Required Courses

ARCH 2360	Design Thinking and Architecture	4
ARCH 5320	Applications of Architectural Design Methods	4

Electives

Complete two of the following: 8

ARTH 2210	Modern Art and Design History	
ARTH 2211	Contemporary Art and Design History	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts	
ARTH 5400	Contemporary Visual Culture	
LARC 2330	Cities, Landscape, and Modern Culture	
LARC 2340	Cities, Landscape, and Contemporary Culture	

Sustainability Track

Required Courses

ARCH 2250	Introduction to Sustainable Design in Architecture	4
ARCH 5210	Environmental Systems	4

Electives

Complete two of the following: 8

LARC 2230	Site Materials and Methods	
LARC 2240	Sustainable Site Construction and Detailing	
LARC 2340	Cities, Landscape, and Contemporary Culture	
LARC 2440	Planting Design	
CIVE 2334	Environmental Engineering 1	
CIVE 4566	Design for Sustainable Transportation: Netherlands	
CIVE 5270	Environmental Protection and Management	
CIVE 5373	Transportation Planning and Engineering	
CIVE 5376	Traffic Engineering	
ENVR 3200	Water Resources	
ENVR 4515	Sustainable Development	
SBSY 5100	Sustainable Design and Technologies in Construction	
SBSY 5200	Sustainable Engineering Systems for Buildings	
PHIL 1180	Environmental Ethics	

Real Estate Development and Design Track

Required Courses

ARCH 2550	Real Estate Development and Design	4
-----------	------------------------------------	---

ARCH 5530	Innovative Models in Real Estate Development and Design	4
-----------	---------------------------------------------------------	---

Electives

Complete two of the following: 8

ENTR 2206	Global Social Enterprise	
ENTR 2301	Innovation!	
ENTR 2303	Entrepreneurial Marketing and Selling	
ENTR 3325	Sustainable Innovation	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 4501	Business Planning for Technology Ventures	
MKTG 2209	Introduction to Marketing	

Architectural Studies Major Credit Requirement

Complete 78 semester hours in the major.

Program Requirement

128 total semester hours required

Landscape Architecture, BLA

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath requirements Natural and Designed World (ND), Creative Expression/Innovation (EI), Interpreting Culture (IC), Formal and Quantitative Reasoning (FQ), Societies and Institutions (SI), and Difference and Diversity (DD) are met through the major course requirements. All other NUpath requirements must be met through electives.

Landscape Architecture Major Requirements

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	6
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 1320 and ARCH 1321	Architecture and Global Cultures, 1400 to Present and Recitation for ARCH 1320	4
ARCH 3361	Architecture and Urbanism Abroad	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

146 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 1120	6	Vacation	
ARCH 1110	6	ARCH 1320 and ARCH 1321	4		
ARCH 1310 and ARCH 1311	4	MATH 1241	4		

ENVR 1200	4	ENGW 1111	4	
Elective	4	EEAM 2000	1	
19		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: 147

Architectural History, Minor

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 architecture majors.

Required Courses

ARCH 1310	Architecture and Global Cultures, Prehistory to 1400	4
ARCH 1320	Architecture and Global Cultures, 1400 to Present	4
ARCH 2330	Architecture, Modernity, and the City, 1800 to 1910	4
ARCH 2340	Architecture, Modernity, and the City, 1910 to 1980	4

GPA Requirement

2.000 GPA required in the minor

Urban Landscape Studies, Minor

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**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	
ARCH 3364	Architecture and Planning in Twenty-First-Century China	
ENVR 1200	Dynamic Earth	
ENVR 4515	Sustainable Development	
ENVR 5210	Environmental Planning	

Requirements for Architecture Majors**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	
CIVE 5270	Environmental Protection and Management	
CIVE 5321	Geoenvironmental Engineering	
PHTH 5214	Environmental Health	

GPA Requirement

3.000 GPA required in the minor

Art + DesignWebsite (<http://www.northeastern.edu/camd/artdesign>)

Andrea Raynor, MFA

Interim Chair

239 Ryder Hall

617.373.2347

617.373.8535 (fax)

Judy Ulman, Administrative Assistant, j.ulman@northeastern.edu

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, London, Berlin, Budapest, Cuba, and Ecuador offer intensive studio experiences to augment your study with travel and creative work in the context of other cultures.

We seek to cultivate your talents as a creative source of original ideas and expressions of an inner life, using classical, current, and emerging media. You are inspired and challenged to critique and create works of art and design. You will gain visual literacy and fluency with form in the context of a liberal arts education and professional art and design practices. Understanding form is essential to understanding anything. Experimenting with form is essential to understanding form. Artists and designers experiment with form. 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 BA 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. Select courses at the School of the Museum of Fine Arts, Boston (SMFA), adjacent to the Northeastern campus, permit students to discover new talents and interests. 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 *iLisa*. Visual studies seeks to develop critical insight into, and understanding of, what is seen.

The BA in art is offered with the following concentration options:

- Without concentration (p. 54)
- With a concentration in visual studies (p. 56)

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 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 3D 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 BFA in media arts is offered with the following concentration options:

- Without concentration (p. 64)
- With a concentration in animation (p. 66)
- With a concentration in photography (p. 68)
- With a concentration in video arts (p. 70)

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.

The BFA in design (p. 61) is offered with the following concentration options:

- Without concentration
- With a concentration in graphic and information design
- With a concentration in interaction design
- With a concentration in experience design

Studio Art, BFA

The BFA in studio art (p. 72) is offered in partnership with the School of the Museum of Fine Arts, Boston (SMFA), adjacent to the Northeastern campus. In this major, the studio art classes are taken at the SMFA, 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 BFA in studio art degree is awarded by Northeastern.

Combined Majors

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

- Digital art and game design combined major (p. 73)
- Business administration and interactive media combined major (p. 75)
- Computer science and digital art major (p. 78)
- Computer science and design major (p. 80)

Minors

The Department of Art + Design offers the following minors:

- Animation (p. 84)
- Art (p. 84)
- Art history (p. 85)
- Experience design (p. 85)
- Game art (p. 86)
- Graphic and information design (p. 86)
- Interaction design (p. 87)
- Photography (p. 87)
- Video arts (p. 88)

Preapproved Template Programs

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

- Experience 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 (<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. 30).” For template program requirements, visit the myNEU web portal (<http://www.myneu.neu.edu>), 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. 12).”

Academic Progression Standards

Same as college standards.

Programs

Bachelor of Arts (BA)

- Art (p. 54)
- Art with Concentration in Visual Studies (p. 56)
- English and Graphic and Information Design (p. 58)
- Media Arts and Communication Studies (p. 60)

Bachelor of Fine Arts (BFA)

- Design (p. 61)
- Media Arts (p. 64)
- Media Arts with Concentration in Animation (p. 66)
- Media Arts with Concentration in Photography (p. 68)
- Media Arts with Concentration in Video Arts (p. 70)
- Studio Art (p. 72)
- Digital Art and Game Design (p. 73)

Bachelor of Science (BS)

- Business Administration and Interactive Media (p. 75)
- Computer Science and Design (<http://catalog.northeastern.edu/undergraduate/arts-media-design/art-design/computer-science-design-bs>)
- Computer Science and Digital Art (p. 78)
- Computer Science and Interactive Media (p. 80)
- Graphic and Information Design and Mathematics (p. 83)

Minors

- Animation (p. 84)
- Art (p. 84)
- Art History (p. 85)
- Experience Design (p. 85)
- Game Art (p. 86)
- Graphic and Information Design (p. 86)
- Interaction Design (p. 87)
- Photography (p. 87)
- Video Arts (p. 88)

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 BA 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. Select courses at the School of the Museum of Fine Arts, Boston (SMFA), adjacent to the Northeastern campus, permit students to discover new talents and interests. 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 *iPad*. Visual studies seeks to develop critical insight into, and understanding of, what is seen.

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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.

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Art and Design Core

Introduction to College

ARTF 1000	Art and Design at Northeastern	1
-----------	--------------------------------	---

Art and Design Fundamentals

ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
-------------------------	---------------------------------------------------	---

ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5
Drawing Fundamentals Elective		
ARTF 1120 or ARTF 1121	Observational Drawing Conceptual Drawing	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
ARTH 2211	Contemporary Art and Design History	4
Degree Project		
ARTS 4540	Art Degree Project 1	4
ARTS 4541	Art Degree Project 2	4

Arts, Media and Design Requirements

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 2214	American Art
ARTH 4500	Arts of the African Diaspora
ARTH 5100	Contemporary Art Theory and Criticism
ARTH 5200	Issues in Contemporary Art
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts
ARTH 5400	Contemporary Visual Culture
ARTH 5500	Art and New Media: History and Theory
ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools
ARTD 2380 and ARTD 2381	Video Basics and Video Tools
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
ARTD 4682	Video in Context: Video and Social Change
ARTG 1250	Design Process Context and Systems
ARTG 2250 and ARTG 2251	Typography 1 and Type Tools
ARTG 2252	Graphic Design 1
ARTG 3352	Interaction Design Basics
ARTD 2100	Narrative Basics
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
ARTE 4902	Special Topics in Art and Design History

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 and GAME 1111	Games and Society and Recitation for GAME 1110
GAME 2200	Games and Learning

Journalism

JRNL 1150	Interpreting the Day'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 1200	Exploring the Humanities through Film
CINE 2336	American Film and Culture

Music

MUSC 1101	Introduction to 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

133 total semester hours required

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 and ARTF 1125	5	Vacation	0	Vacation	0
ARTF 1122 and ARTF 1123	5	ARTH 1111	4				
ARTH 1110	4	Elective	4				
Arts, media and design elective	4	Elective	4				
Elective	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1120 or 1121	4	ARTF 2220 and ARTF 2221	5	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 2010	1	EEAM 2000	1				
	17		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ARTF 2223 and ARTF 2224	5	Vacation	0	Co-op	
		Elective	4				
		Elective	4				
		Elective	4				
	0		17		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
ARTS 4540	4	ARTS 4541	4

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

Total Hours: 135

Art with Concentration in Visual Studies, 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 BA 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. Select courses at the School of the Museum of Fine Arts, Boston (SMFA), adjacent to the Northeastern campus, permit students to discover new talents and interests. 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.

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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.

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Art and Design Core

Introduction to College

ARTF 1000	Art and Design at Northeastern	1
-----------	--------------------------------	---

Art and Design Fundamentals

ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5

Drawing Fundamentals Elective

ARTF 1120 or ARTF 1121	Observational Drawing or Conceptual Drawing	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
ARTH 2211	Contemporary Art and Design History	4

Degree Project

ARTS 4540	Art Degree Project 1	4
ARTS 4541	Art Degree Project 2	4

Concentration in Visual Studies

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	
ARTE 4902	Special Topics in Art and Design History	
ARTH 1100	Interactive Media and Society	
ARTH 2212	Survey of the Still and Moving Image	
ARTH 2213	Nineteenth-Century Art	
ARTH 2214	American Art	
ARTH 2215	History of Graphic Design	
ARTH 4500	Arts of the African Diaspora	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts	
ARTH 5400	Contemporary Visual Culture	
ARTH 5500	Art and New Media: History and Theory	

Major GPA Requirement

A major GPA of 2.500 is required.

Program Requirement

133 total semester hours required

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 and ARTF 1125	5	Vacation		Vacation	
ARTF 1122 and ARTF 1123	5	ARTH 1111	4				
ARTH 1110	4	Elective	4				
Elective	4	Elective	4				
Elective	4						
		18		17		0	
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 1120 or 1121	4	ARTF 2220 and ARTF 2221	5	Vacation		Co-op	
ARTH 2210	4	ARTH 2211	4				
Art + design history elective	4	Art + design history elective	4				
Elective	4	Elective	4				
EEAM 2010	1	EEAM 2000	1				
		17		18		0	
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ARTF 2223 and ARTF 2224	5	Vacation		Co-op	
		Elective	4				
		Elective	4				
		Elective	4				
		0		17		0	
Year 4							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Art + design history elective	4	Vacation		Vacation	
		Elective	4				
		Elective	4				
		Elective	4				
		0		16		0	
Year 5							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTS 4540	4	ARTS 4541	4				
Elective	4	Art + design history elective	4				
Elective	4	Elective	4				

Elective	4	Elective	4
	16		16

Total Hours: 135

English and Graphic and Information 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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.		
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	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 2296	Early African-American Literature	
ENGL 2360	Modern African-American Literature	
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 2200	The Bible	
ENGL 2210	Medieval British Literature	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	
ENGL 2230	Sixteenth-Century British Literature	

ENGL 2240	Seventeenth-Century British Literature	
ENGL 2250	Eighteenth-Century British Literature	
ENGL 2295	Revolution and Revolt in Early American Literature	
ENGL 2296	Early African-American Literature	
ENGL 3151	Topics in Early Literatures Abroad	
ENGL 3607	Chaucer	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2270	Victorian Literature	
ENGL 2280	Nineteenth-Century British Fiction	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	Nineteenth-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
Twentieth- and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2290	Twentieth-Century British Literature	
ENGL 2291	Major Twentieth-Century British Novelists	
ENGL 2355	Modern American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture Abroad	
ENGL/JWSS 2610	Contemporary Israeli Literature and Art Abroad	
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure	
ENGL 4060	Topics in 20th- and 21st-Century Literatures	
Theories and Methods		
Complete one of the following:		4
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2830	Literary Theory	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 4400	Opening the Archive	
ENGL 4110	Topics in Rhetoric and Writing Studies	
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 1501	British Literature 1800 to Present	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text Abroad	
ENGL 3488	Film and Text	
ENGL 3572	Fantasy	
ENGL 3582	Children’s Literature	
ENGL 3663	The African-American Novel	

Writing

Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 2710	Style and Editing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 3375	Writing Boston	
ENGL 3379	Nonfiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

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 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
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 and ARTG 2251	Typography 1 and Type Tools	5
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:		4-5
ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	
ARTD 2380 and ARTD 2381	Video Basics and Video Tools	
ARTG 2260	Programming Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	
ARTG 3351	Time-Based Design	
ARTG 3352	Interaction Design Basics	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 3461	Service Design	
ARTG 3700	Interaction Design 2: Mobile	
ARTG 4551	Design Degree Project 2	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Design	
ARTG 4554	Typography 3	

Integrative Requirement

Code	Title	Hours
Integrative English Course		

ENGL 3340	Technologies of Text	4
-----------	----------------------	---

Program Requirement

128 total semester hours required

Media Arts and Communication 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
Drawing Fundamentals		
ARTF 1120 or ARTF 1121	Observational Drawing Conceptual Drawing	4
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:		10
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	
ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	
ARTD 2380 and ARTD 2381	Video Basics and Video Tools	
Art and Design Electives		
Complete two of the following:		8-10
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	

ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools
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
ARTE 4902	Special Topics in Art and Design History
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 2214	American Art
ARTH 4500	Arts of the African Diaspora
ARTH 5100	Contemporary Art Theory and Criticism
ARTH 5200	Issues in Contemporary Art
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts
ARTH 5400	Contemporary Visual Culture
ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools
ARTD 2380 and ARTD 2381	Video Basics and Video Tools
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
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	
COMM 1310	Classical Foundations of Communication	

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 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3331	Argumentation and Debate	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3500	Environmental Issues, Communication, and the Media	
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 4131	Sex and Interpersonal Communication	
COMM 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4535	Nonverbal Social Interaction	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
COMM 4901	Seminar in Communications	
COMM 4918	Special Topics in Communication Studies	

Communication Studies Electives

Complete three COMM courses. 12

Integrative Requirement

Code	Title	Hours
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

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

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

Introduction to College

ARTF 1000	Art and Design at Northeastern	1
Art and Design Fundamentals		
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5
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

Design Courses

ARTG 1250	Design Process Context and Systems	4
ARTG 2250 and ARTG 2251	Typography 1 and Type Tools	5
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	

Concentrations

Complete one of the concentrations listed below:

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

Design Electives

Art and Design Elective

Note: Courses in this section cannot also count in the "Design History Elective" section below.

Complete one of the following:		4
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTH 1100	Interactive Media and Society	
ARTD 2100	Narrative Basics	
ARTG 2300	Business Literacy for Design and Media	
ARTE 4901	Special Topics in Art and Design Studio	

Design History Elective

ARTH 1100 or ARTH 2215	Interactive Media and Society or History of Graphic Design	4
------------------------	------------------------------------------------------------	---

Media Arts Basics Elective

Complete one of the following:		5
--------------------------------	--	---

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	
ARTD 2380 and ARTD 2381	Video Basics and Video Tools	

Program Requirements

135 total semester hours required

Concentrations

CONCENTRATION IN GRAPHIC AND INFORMATION DESIGN

Required Courses

ARTG 2252	Graphic Design 1	4
ARTG 3450	Graphic Design 2	4

Electives

Complete four of the following: 16-17

ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	
ARTG 3351	Time-Based Design	
ARTG 3352	Interaction Design Basics	
ARTG 3460	Identity and Brand Design	
ARTG 3461	Service Design	
ARTG 3700	Interaction Design 2: Mobile	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Design	
ARTG 4554	Typography 3	

CONCENTRATION IN INTERACTION DESIGN

Required Courses

ARTG 2252	Graphic Design 1	4
ARTG 2260	Programming Basics	4
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	5
ARTG 3700	Interaction Design 2: Mobile	4

Electives

Complete two of the following: 8

ARTG 3450	Graphic Design 2	
ARTG 3351	Time-Based Design	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental Design	
ARTG 4554	Typography 3	
ARTG 3460	Identity and Brand Design	
ARTG 3462	Experience Design 1	
ARTG 3463	Experience Design 2	
ARTG 3500	Transmedia Design	
ARTG 3461	Service Design	
ARTG 3250	Physical Computing	

CONCENTRATION IN EXPERIENCE DESIGN

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 3450	Graphic Design 2
ARTG 3351	Time-Based Design
ARTG 3352	Interaction Design Basics
ARTG 4552	Information Design 2
ARTG 4553	Environmental Design
ARTG 4554	Typography 3
ARTG 3460	Identity and Brand Design
ARTG 3500	Transmedia Design
ARTG 3700	Interaction Design 2: Mobile
ARTG 3250	Physical Computing

Plan of Study

BFA in Design with concentration in 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 and ARTF 1125	5	Vacation		Vacation	
ARTG 1250	4	ARTG 2250 and ARTG 2251	5				
ARTF 1122 and ARTF 1123	5	ARTH 2210	4				
ARTH 1111	4	Elective	4				
Elective	4						
	18		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2220 and ARTF 2221	5	ARTF 2223 and ARTF 2224	5	Vacation		Vacation	
ARTH 2211	4	ARTG 3350	4				
ARTG 2252	4	Design History Elective	4				
Elective	4	Elective	4				
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EEAM 2000	1	Co-op		Co-op		Vacation	
ARTG 3450	4						
ARTG 3451	4						
Media Arts Elective	5						
Elective	4						
	18		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: 136

BFA in Design with concentration in 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 and ARTF 1125	5	Vacation		Vacation	
ARTG 1250	4	ARTG 2250 and ARTG 2251	5				
ARTF 1122 and ARTF 1123	5	ARTH 2210	4				
ARTH 1111	4	Elective	4				
Elective	4						
	18		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2220 and ARTF 2221	5	ARTG 2252	4	Vacation		Vacation	
ARTF 2223 and ARTF 2224	5	ARTG 2400 and ARTG 2401	5				
ARTH 2211	4	ARTG 3350	4				
Elective	4	Elective	4				
	18		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EEAM 2000	1	Co-op		Co-op		Vacation	
ARTG 2260	4						
ARTG 3451	4						
Design History Elective	4						
Elective	4						
	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	5			
Elective	4			
	17	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: 137

BFA in Design with concentration in 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 and ARTF 1125	5 Vacation	Vacation	
ARTG 1250	4 ARTG 2250 and ARTG 2251	5		
ARTF 1122 and ARTF 1123	5 ARTH 2210	4		
ARTH 1111	4 Elective	4		
Elective	4			
	18	18	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ARTF 2220 and ARTF 2221	5 ARTG 3462	4 Vacation	Vacation	
ARTF 2223 and ARTF 2224	5 ARTG 2260	4		
ARTH 2211	4 Design History Elective	4		
Elective	4 Elective	4		
	18	16	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
EEAM 2000	1 Co-op	Co-op	Vacation	
ARTG 3350	4			
ARTG 3463	4			

Art and Design Elective	4			
Elective	4			
	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	5			
Elective	4			
	17	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: 136

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 3D 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.

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

Art and Design Core

Introduction to College

ARTF 1000	Art and Design at Northeastern	1
-----------	--------------------------------	---

Art and Design Fundamentals

ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5

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 Electives

If, instead of completing these media arts electives, you would like to complete a concentration in animation, photography, or video arts, contact your academic advisor.

Note: Courses in this requirement may not be used for the "Drawing Fundamentals Elective" or "Media Arts History Elective" sections.

Complete six of the following:	24-25
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
ARTE 4902	Special Topics in Art and Design History
ARTH 2213	Nineteenth-Century Art
ARTH 2214	American Art
ARTH 4500	Arts of the African Diaspora
ARTH 5100	Contemporary Art Theory and Criticism
ARTH 5200	Issues in Contemporary Art
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts

ARTH 5400	Contemporary Visual Culture
ARTH 5500	Art and New Media: History and Theory
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 3471	Virtual Environment Design
ARTD 3472	Character Design for Animation
ARTD 3480	Video: Sound and Image
ARTD 3485	Video Art
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
ARTD 4682	Video in Context: Video and Social Change
ARTG 2250 and ARTG 2252	Typography 1 and Graphic Design 1
ARTG 3351	Time-Based Design
ARTG 3352	Interaction Design Basics
ARTD 3473	Animation for Games
ARTH 1100	Interactive Media and Society
MSCR 3385	Video: Story and Sequence
MSCR 4685	Interactive Documentary

Media Arts Requirements

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:	5
ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools
ARTD 2380 and ARTD 2381	Video Basics and Video Tools

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 and ARTG 2251	Typography 1 and Type Tools	5
-------------------------	-----------------------------	---

Degree Project

ARTD 4530	Media Arts Degree Project 1	4
-----------	-----------------------------	---

ARTD 4670	Media Arts Degree Project 2	4
-----------	-----------------------------	---

Program Requirement

132 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	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTF 1122 and ARTF 1123	5	Vacation		Vacation	
ARTF 1124 and ARTF 1125	5	ARTF 2220 and ARTF 2221	5				
ARTH 1110	4	ARTH 1111	4				
Drawing fundamentals elective	4	Elective	4				
Elective	4						
	18		18			0	0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2223 and ARTF 2224	5	Drawing fundamentals elective	4	Vacation		Vacation	
ARTH 2210	4	Media arts history elective	4				
Media arts basics elective	5	Media arts elective	4				
Elective	4	Elective	4				
	18		16			0	0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 2250 and ARTG 2251	5	Co-op		Co-op		Vacation	
Media arts elective	4						
Elective	4						
Elective	4						
EEAM 2000	1						
	18		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: 136

Media Arts with Concentration in Animation, 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 3D 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.

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

Art and Design Core

Introduction to College

ARTF 1000	Art and Design at Northeastern	1
Art and Design Fundamentals		

ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5

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

Concentration in Animation**Animation Requirements**

ARTD 2100	Narrative Basics	4
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	5
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" sections.

Complete one of the following:		4
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	
ARTE 4902	Special Topics in Art and Design History	
ARTF 1121	Conceptual Drawing	
ARTH 1100	Interactive Media and Society	
ARTH 2213	Nineteenth-Century Art	
ARTH 2214	American Art	
ARTH 4500	Arts of the African Diaspora	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts	
ARTH 5400	Contemporary Visual Culture	
ARTH 5500	Art and New Media: History and Theory	

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 3351	Time-Based Design
ARTG 3352	Interaction Design Basics

Media Arts Requirements**Drawing Fundamentals Elective**

ARTF 1120	Observational Drawing	4
-----------	-----------------------	---

Media Arts Basics Elective

Note: Select courses not used for the above concentration.

Complete one of the following: 5

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	
ARTD 2380 and ARTD 2381	Video Basics and Video Tools	

Media Arts History Elective

ARTH 2211 or ARTH 2212	Contemporary Art and Design History Survey of the Still and Moving Image	4
---------------------------	-----------------------------------------------------------------------------	---

Design Requirement

ARTG 2250 and ARTG 2251	Typography 1 and Type Tools	5
----------------------------	--------------------------------	---

Degree Project

ARTD 4530	Media Arts Degree Project 1	4
ARTD 4670	Media Arts Degree Project 2	4

Program Requirement

132 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	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTF 1122 and ARTF 1123	5	Vacation		Vacation	
ARTF 1120	4	ARTF 2220 and ARTF 2221	5				
ARTF 1124 and ARTF 1125	5	ARTH 1111	4				
ARTH 1110 Elective	4	Elective	4				
	18		18		0		0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ARTF 2223 and ARTF 2224	5 ARTD 2100	4 Vacation	Vacation	
ARTD 2370 and ARTD 2371	5 ARTD 3470	4		
ARTH 2210	4 Media arts history elective	4		
Elective	4 Elective	4		
	18	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 and ARTG 2251	5			
Media arts basics elective	5			
Elective	4			
EEAM 2000	1			
	19	0	0	0

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

Total Hours: 137

Media Arts with Concentration in Photography, 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 3D 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.

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

Art and Design Core

Introduction to College

ARTF 1000	Art and Design at Northeastern	1
-----------	--------------------------------	---

Art and Design Fundamentals

ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5

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

Concentration in Photography

Photography Requirements

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	5
ARTD 3460	Photography 1	4
ARTD 4565	Photography 2	4

Photography Elective

ARTD 4660 or ARTD 4661	Studio Photography or Alternative Photographic Processes	4
------------------------	----------------------------------------------------------	---

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 "Photography Elective" sections.

Complete two of the following: 8

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	
ARTE 4902	Special Topics in Art and Design History	
ARTH 2213	Nineteenth-Century Art	
ARTH 2214	American Art	
ARTH 4500	Arts of the African Diaspora	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts	
ARTH 5400	Contemporary Visual Culture	
ARTH 5500	Art and New Media: History and Theory	
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	Video Art	
ARTD 4570	Animation 2	
ARTD 4575	Animation 3	
ARTD 4577	Digital Sculpture and Model Making	
ARTD 5582	Collaborative Video and Community Engagement	
ARTD 4682	Video in Context: Video and Social Change	
ARTG 2252	Graphic Design 1	
ARTG 3351	Time-Based Design	
ARTG 3352	Interaction Design Basics	
ARTD 3473	Animation for Games	
ARTH 1100	Interactive Media and Society	

Media Arts Requirements

Drawing Fundamentals Elective

ARTF 1120	Observational Drawing	4
-----------	-----------------------	---

or ARTF 1121	Conceptual Drawing	
--------------	--------------------	--

Media Arts Basics Elective

Note: Select courses not used for the above concentration.

Complete one of the following: 5

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	
ARTD 2380 and ARTD 2381	Video Basics and Video Tools	

Media Arts History Elective

ARTH 2211 or ARTH 2212	Contemporary Art and Design History or Survey of the Still and Moving Image	4
------------------------	-----------------------------------------------------------------------------	---

Design Requirement

ARTG 2250 and ARTG 2251	Typography 1 and Type Tools	5
-------------------------	-----------------------------	---

Degree Project

ARTD 4530	Media Arts Degree Project 1	4
ARTD 4670	Media Arts Degree Project 2	4

Program Requirement

132 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	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTH 1111	4	Vacation		Vacation	
ARTH 1110	4	ARTF 1122 and ARTF 1123	5				
ARTF 1124 and ARTF 1125	5	ARTF 2220	4				
Drawing fundamentals elective	4	Elective	4				
Elective	4						
		18		17		0	

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2223 and ARTF 2224	5	ARTD 3460	4	Vacation		Vacation	
ARTD 2360 and ARTD 2361	5	ARTH 2212	4				
ARTH 2210	4	Media arts basics elective	5				
Elective	4	Elective	4				
		18		17		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTD 4565	4	Co-op		Co-op		Vacation	

ARTG 2250 and ARTG 2251	5			
Art and design elective	4			
Elective	4			
EEAM 2000	1			
	18	0	0	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Art and design history	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: 136

Media Arts with Concentration in Video 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 3D 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.

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI), Difference and Diversity (DD), Ethical Reasoning (ER), and Writing-Intensive (WI) are met through the major course requirements. All other NUpath requirements must be met through electives.

Art and Design Core

Introduction to College

ARTF 1000	Art and Design at Northeastern	1
-----------	--------------------------------	---

Art and Design Fundamentals

ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5

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

Concentration in Video Arts

Video Arts Requirements

ARTD 2380 and ARTD 2381	Video Basics and Video Tools	5
ARTD 3480	Video: Sound and Image	4
ARTD 5582	Collaborative Video and Community Engagement	4
MSCR 3385	Video: Story and Sequence	4

Video Arts Electives

Complete two of the following:		8
ARTD 3485	Video Art	
ARTD 4682	Video in Context: Video and Social Change	
MSCR 4685	Interactive Documentary	
CINE 4560	Directing the Short Fiction Film	
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 Cameras
MSCR 3500	Documentary Storytelling

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” sections.

Complete two of the following: 8

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
ARTE 4902	Special Topics in Art and Design History
ARTH 2213	Nineteenth-Century Art
ARTH 2214	American Art
ARTH 4500	Arts of the African Diaspora
ARTH 5100	Contemporary Art Theory and Criticism
ARTH 5200	Issues in Contemporary Art
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts
ARTH 5400	Contemporary Visual Culture
ARTH 5500	Art and New Media: History and Theory
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
ARTG 3352	Interaction Design Basics
ARTD 3473	Animation for Games
ARTH 1100	Interactive Media and Society

Media Arts Requirements

Drawing Fundamentals Elective

ARTF 1120	Observational Drawing	4
or ARTF 1121	Conceptual Drawing	

Media Arts Basics Elective

Note: Select courses not used for the above concentration.

Complete one of the following: 5

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools

ARTD 2380 and ARTD 2381	Video Basics and Video Tools
-------------------------	------------------------------

Media Arts History Elective

Complete one of the following: 4

ARTH 1100	Interactive Media and Society
ARTH 2211	Contemporary Art and Design History
ARTH 2212	Survey of the Still and Moving Image

Design Requirement

ARTG 2250 and ARTG 2251	Typography 1 and Type Tools	5
-------------------------	-----------------------------	---

Degree Project

ARTD 4530	Media Arts Degree Project 1	4
ARTD 4670	Media Arts Degree Project 2	4

Program Requirement

132 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	Summer 1	Hours	Summer 2	Hours
ARTF 1000	1	ARTF 1122 and ARTF 1123	5	Vacation		Vacation	
ARTF 1124 and ARTF 1125	5	ARTF 2220 and ARTF 2221	5				
ARTH 1111	4	ARTH 1110	4				
Elective	4	Elective	4				
Elective	4						
		18		18		0	

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTF 2223 and ARTF 2224	5	MSCR 3385	4	Vacation		Vacation	
ARTD 2380 and ARTD 2381	5	Drawing fundamentals elective	4				
ARTH 2210	4	Media arts history elective	4				
Elective	4	Elective	4				
		18		16		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTD 3480	4	Co-op		Co-op		Vacation	
ARTG 2250 and ARTG 2251	5						
Media arts basics elective	5						
Elective	4						
EEAM 2000	1						
		19		0		0	

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ARTD 4582	4 Co-op	Co-op	Vacation	
Media arts 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 Media arts elective	4
Elective	4 Elective	4
Elective	4 Elective	4
	16	16

Total Hours: 137

Studio Art, BFA

The BFA in studio art is offered in partnership with the School of the Museum of Fine Arts, Boston (SMFA), adjacent to the Northeastern campus. In this major, the studio art classes are taken at the SMFA, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath requirements Interpreting Culture (IC) and Societies and Institutions (SI) are met through the major course requirements. All other NUpath requirements must be met through electives.

Note: The BFA in studio art is a joint degree program offered in collaboration with the School of the Museum of Fine Arts, Boston. 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 School of the Museum of Fine Arts, 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.

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 2214	American Art	
ARTH 4500	Arts of the African Diaspora	
ARTH 5100	Contemporary Art Theory and Criticism	
ARTH 5200	Issues in Contemporary Art	
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts	
ARTH 5400	Contemporary Visual Culture	
ARTH 5500	Art and New Media: History and Theory	
ARTH 5902	Special Topics in Art and Design History	
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	
ARTE 4902	Special Topics in Art and Design History	
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	
ARCH 3350	American Houses and Housing	
CLTR 1240	Latin American Film	
CLTR 1260	Japanese Film	
CLTR 1265	Spanish Civil War on Film	
CLTR 1280	French Film and Culture	
CLTR 2501	Chinese Film: Gender and Ethnicity	
CLTR 2504	Modern German Film and Literature	
CINE 2350	History of Film	
CINE 2336	American Film and Culture	
CINE 3392	Gender and Film	
CINE 3500	Film Theory	
CINE 3920	Topics in Film Studies	
CLTR 3930	Topics in International Cinema	
CINE 2394	Modern Film and Global Culture	

CINE 4500	Modernism/Modernity and Film
ECON 1281	Economics of the Creative Industries
ENGL 3488	Film and Text
GAME 1110	Games and Society
HIST 2386	History of Soviet Cinema
HIST 3421	History through Film
MSCR 1220	Media, Culture, and Society
MSCR 2302	Advertising and Promotional Culture
MSCR 2305	Digital Media Culture
MSCR 3426	Popular Music as Media Form
MUSC 1101	Introduction to Music
MUSC 1109	Introduction to Art, Drama, and Music
MUSC 1113	Film Music

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

Studio Art Courses

Studio Art

Specific courses are targeted to each student's unique program of study, which is determined in consultation with an academic advisor at the School of the Museum of Fine Arts, Boston. 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 the School of the Museum of Fine Arts, Boston. 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

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	Hours
ARTF 1000	1	SMFA 3000	10	Vacation	0	Vacation	0	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	Hours
SMFA 3000	10	SMFA 3000	10	Vacation	0	Vacation	0	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	Hours
SMFA 3000	10	SMFA 3000	10	Vacation	0	Vacation	0	0

Digital Art and Game Design, BFA

The BFA in digital art and game design combined major offers students an opportunity to develop skills in the visual arts within games, while focusing on 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 combined majors encourage students to think 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 all game design combined 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 BS in computer science degree.

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

Digital Art Courses

Code	Title	Hours
Art and Design Learning Community		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Foundation		
ARTH 1111	Global Art and Design History: Renaissance to Modern	4

ARTF 1120	Observational Drawing	4
ARTF 1121	Conceptual Drawing	4
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5
ARTH 2212	Survey of the Still and Moving Image	4

Digital Art Requirements

Complete two of the following: 10

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	
ARTD 2380 and ARTD 2381	Video Basics and Video Tools	

Digital Art Electives

Complete two of the following: 8

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 4577	Digital Sculpture and Model Making	
ARTD 5582	Collaborative Video and Community Engagement	

General Requirements

Code	Title	Hours
PSYC 1101	Foundations of Psychology	4
MATH 1260	Math Fundamentals for Games	4
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5

Computing and Social Issues

This course should be taken only after the student has completed 56 semester hours.

Complete one of the following: 4

SOCL 4528	Computers and Society	
PHIL 1145	Technology and Human Values	
MSCR 1220	Media, Culture, and Society	

Game Design Courses

Code	Title	Hours
Game Design		
GAME 1110	Games and Society	4
GAME 3300	Game Interface 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
Interactive Media		
ARTD 2100	Narrative Basics	4
ARTG 2260	Programming Basics	4

Game Design Electives

Code **Title** **Hours**

Complete three courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the faculty.

Game Design

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

Art and Design

ARTH 2210	Modern Art and Design History	
-----------	-------------------------------	--

Graphic Design

ARTG 2252	Graphic Design 1	
ARTG 2250 and ARTG 2251	Typography 1 and Type Tools	
ARTG 3350	Typography 2	

Interactive Media

ARTH 1100	Interactive Media and Society	
ARTD 2200	Interactive Narrative	
ARTG 2300	Business Literacy for Design and Media	
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	
ARTE 4901	Special Topics in Art and Design Studio	

Computer Science

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

Psychology

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

Required General Electives

Code **Title** **Hours**

Complete three general electives. 12

Program Requirement

138 total semester hours required

Plan of Study

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

Year 1				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ARTF 1000	1 GAME 1110	4 Vacation	0 Vacation	0
ARTF 1120	4 ARTF 1121	4		
ARTF 1124 and ARTF 1125	5 ARTH 2212	4		
ARTH 1111	4 ARTF 1122 and ARTF 1123	5		
ENGW 1111	4			
	18	17	0	0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ARTF 2220 and ARTF 2221	5 GAME 2150	4 Vacation	Vacation	
ARTF 2223 and ARTF 2224	5 ARTD 2100	4		
CS 2500 and CS 2501	5 Digital art elective	4		
MATH 1260	4 PSYC 1101	4		
	EEAM 2000	1		
	19	17	0	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
GAME 3300	4 Co-op	Co-op	Vacation	
GAME 3700	4			
Digital art elective	4			
Elective	4			
	16	0	0	0
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
GAME 3800	4 Co-op	Co-op	Vacation	
Ethics and culture elective	4			
Digital art elective	4			
Game design elective	4			
	16	0	0	0
Year 5				
Fall	Hours Spring	Hours		
GAME 4700	4 GAME 4701	4		
Game design elective	4 Game design elective	4		

Digital art elective	4 Elective	4
Elective	4 Elective	4
	16	16

Total Hours: 135

Business Administration and Interactive Media, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Business Core Requirements

Code	Title	Hours
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	• Management
or EEAM 2000	Professional Development for Co-op		• Management Information Systems
			• Supply Chain Management

Interactive Media Requirements

Code	Title	Hours
Interactive Media Courses		
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5
ARTG 1250	Design Process Context and Systems	4
ARTG 2260	Programming Basics	4
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	5
ARTG 3500	Transmedia Design	4
ARTH 1100	Interactive Media and Society	4
Art and Design		
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTG 2250 and ARTG 2251	Typography 1 and Type Tools	5

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	

Interactive Media

ARTF 2220	4D Fundamentals: Sequence and Drawing	
ARTG 2252	Graphic Design 1	
ARTG 3350	Typography 2	
ARTD 2200	Interactive Narrative	
ARTG 3250	Physical Computing	
ARTG 3700	Interaction Design 2: Mobile	
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. 76).

- Accounting
- Business/Interdisciplinary
- Entrepreneurship and Innovation
- Finance

Integrative Courses

Code	Title	Hours
Integrative Courses		
Note: These courses also satisfy requirements above:		
MKTG 3301	Marketing Management	4
ARTG 3500	Transmedia Design	4
Capstone		
Complete the interactive media capstone or the business capstone:		4-8
<i>Interactive Media Capstone</i>		
ARTG 4700	Interaction Team Degree Project 1	
ARTG 4701	Interaction Team Degree Project 2	
<i>Business Capstone</i>		
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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	
Electives		
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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

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 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 4518	Risk Management and Insurance	
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		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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
MGMT 4603	Leadership Seminar
ENTR 2215	Understanding Family Enterprise

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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	

Computer Science and Digital Art, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C– or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4300	Computer Graphics	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4
IS 4300	Human Computer Interaction	4
Computer Science Senior Seminar		
CS 4000 or THTR 1170	Senior Seminar The Eloquent Presenter	1
Computer Science Elective Courses		
Complete two courses from the following ranges:		8
CS 2600 to CS 7999 but not CS 5010		
IS 2000 to IS 7999 but not IS 4900		
Digital Art Courses		
Code	Title	Hours
Required Digital Art Courses		
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5
Digital Art Electives		
Complete five of the following:		20-23
<i>Basics</i>		

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools
ARTD 2380 and ARTD 2381	Video Basics and Video Tools

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 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
ARTD 4682	Video in Context: Video and Social Change

History

ARTH 2212	Survey of the Still and Moving Image
-----------	--------------------------------------

Digital Art Capstone Requirement

ARTD 4530	Media Arts Degree Project 1	4
ARTD 4670	Media Arts Degree Project 2	4

Major Requirements

Code	Title	Hours
PSYC 1101	Foundations of Psychology	4
MATH 2331	Linear Algebra	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		
PHIL 1145	Technology and Human Values	4
SOCL 1280	The Twenty-First-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	

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 four general electives.		16

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- 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
- 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

137 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	
CS 1800 and CS 1801	4 CS 2510 and CS 2511	5 Vacation	0 Vacation	0	
CS 2500 and CS 2501	5 CS 2800 and CS 2801	5			
ARTF 1122 and ARTF 1123	5 ARTF 1124 and ARTF 1125	5			
ENGW 1111	4 PSYC 1101	4			
CS 1200	1				
19		19	0	0	
Year 2					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
CS 3500	4 CS 4800	4 Vacation	0 Vacation	0	
CS 3200	4 Digital art elective				
ARTF 2220 and ARTF 2221	5 Digital art elective				
ARTF 2223 and ARTF 2224	5 IS 4300	4			
18		8	0	0	

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
BS computer science elective	4 Co-op	0 Co-op	0 Vacation	0
Digital art elective	4			
Digital art elective	4			
MATH 2331	4			
CS 1210	1			
	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
Digital art elective	4			
ENGW 3302	4			
Elective	4			
	16	0	0	0

Year 5

Fall	Hours Spring	Hours
CS 4500	4 Elective	4
ARTD 4530	4 Elective	4
BS computer science elective	4 CS 4000	1
Elective	4 ARTD 4670	4
	SOCL 4528	4
	16	17

Total Hours: 130

Computer Science and Interactive Media, 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. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1

Computer Science Fundamental Courses

A grade of C– or higher is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4
CS 4300	Computer Graphics	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4
IS 4300	Human Computer Interaction	4

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

Design Requirements

Code	Title	Hours
ARTH 1100	Interactive Media and Society	4
ARTD 2100	Narrative Basics	4
or ARTG 1250	Design Process Context and Systems	
ARTG 2260	Programming Basics	4
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	5
ARTG 4700	Interaction Team Degree Project 1	4
ARTG 4701	Interaction Team Degree Project 2	4
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
Complete one of the following:		5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	

Major Requirements

Code	Title	Hours
PSYC 1101	Foundations of Psychology	4
MATH 1260	Math Fundamentals for Games	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

Creative Industries Electives

Code	Title	Hours
Complete five courses from the following lists:		20-25
Game Design		
GAME 1110	Games and Society	
GAME 2200	Games and Learning	
GAME 2500	Foundations of Game 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 3899	Topics in Game Design	
Art and Design		
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	
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	
Animation		
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	
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 2380 and ARTD 2381	Video Basics and Video Tools	
ARTD 3480	Video: Sound and Image	
ARTD 5582	Collaborative Video and Community Engagement	
ARTD 4682	Video in Context: Video and Social Change	
Photography		
ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	
ARTD 3460	Photography 1	
ARTD 4565	Photography 2	
ARTD 4661	Alternative Photographic Processes	
Graphic Design		
ARTG 2250 and ARTG 2251	Typography 1 and Type Tools	
ARTG 2252	Graphic Design 1	
ARTG 3350	Typography 2	
Interactive Media		

ARTD 2200	Interactive Narrative
ARTG 2300	Business Literacy for Design and Media
ARTG 3250	Physical Computing
ARTG 3500	Transmedia Design
ARTG 3700	Interaction Design 2: Mobile
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 4400	Programming Languages
CS 4550	Web Development
CS 4850	Building Game Engines
CS 4910	Computer Science Topics
CS 4991	Research
CS 4992	Directed Study
CS 4993	Independent Study

Psychology

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

Mathematics

MATH 1341	Calculus 1 for Science and Engineering
MATH 1342	Calculus 2 for Science and Engineering
MATH 2321	Calculus 3 for Science and Engineering
MATH 2331	Linear Algebra
MATH 3081	Probability and Statistics
MATH 2341	Differential Equations and Linear Algebra for Engineering

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
- 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 Requirements

Minimum 2.000 GPA required in all CS, IS, and IM required courses

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	
CS 1200	1 CS 2510 and CS 2511	5 CS 3500	4	
CS 1800 and CS 1801	4 CS 2800 and CS 2801	5 CS 4800	4	
CS 2500 and CS 2501	5 ARTH 1100	4		
ENGW 1111	4 ARTF 1124 and ARTF 1125	5		
ARTF 1122 and ARTF 1123	5			
	19	19	8	
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ARTG 2260*	4 Co-op 1	Co-op 1	Elective	4
MATH 1260	4		Elective	4
PSYC 1101	4			
ARTD 2100 or ARTG 1250	4			
CS 1210	1			
	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 1111	4
ARTG 2400 and ARTG 2401*	5		Elective	4
Creative Industries Elective 1	4			
CS 4300	4			
THTR 1170	1			
	18	0	0	8
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours	
CS 4500	4 ARTG 4701*	4 Elective	4	
ARTG 4700*	4 Computing and Social Issues	4 Elective	4	

Creative Industries Elective 2	4 Creative Industries Elective 4	4	
Creative Industries Elective 3	4 Creative Industries Elective 5	4	
	16	16	8

Total Hours: 137

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

Year 1				
Fall	Hours Spring	Hours Summer 1	Hours	
CS 1200	1 CS 2510 and CS 2511	5 CS 3500	4	
CS 1800 and CS 1801	4 CS 2800 and CS 2801	5 CS 4800	4	
CS 2500 and CS 2501	5 ARTH 1100	4		
ENGW 1111	4 ARTF 1124 and ARTF 1125	5		
ARTF 1122 and ARTF 1123	5			
	19	19	8	
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ARTG 2260*	4 Co-op 1	Co-op 1	Elective	4
MATH 1260	4		Elective	4
PSYC 1101	4			
ARTD 2100 or ARTG 1250	4			
CS 1210	1			
	17	0	0	8
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours	
IS 4300	4 Co-op 2	Co-op 2		
ARTG 2400 and ARTG 2401*	5			
Creative Industries Elective 1	4			
CS 4300	4			
THTR 1170	1			
	18	0	0	
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours	
ENGW 3302	4 Co-op 3	Co-op 3		
Elective	4			
Creative Industries Elective 2	4			

Creative Industries Elective 3	4		
	16	0	0

Year 5

Fall	Hours	Spring	Hours
CS 4500	4	ARTG 4701	4
ARTG 4700*	4	Computing and Social Issues	4
Creative Industries Elective 4	4	Creative Industries Elective 5	4
Elective	4	Elective	4
	16		16

Total Hours: 137

* Indicates course must be taken in the semester listed.

Graphic and Information Design and Mathematics, BS

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

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 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
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 and ARTG 2251	Typography 1 and Type Tools	5
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: 4-5

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools
ARTD 2380 and ARTD 2381	Video Basics and Video Tools
ARTG 2260	Programming Basics
ARTF 1120	Observational Drawing
ARTF 1121	Conceptual Drawing
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools
ARTG 3351	Time-Based Design
ARTG 3352	Interaction Design Basics
ARTG 3450	Graphic Design 2
ARTG 3460	Identity and Brand Design
ARTG 3461	Service Design
ARTG 3700	Interaction Design 2: Mobile
ARTG 4551	Design Degree Project 2
ARTG 4552	Information Design 2
ARTG 4553	Environmental 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 Electives		
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 83 semester hours in the major.

Program Requirement

128 total semester hours required

Animation, Minor

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

An overall GPA of 2.500 is required for the minor.

Required Courses

ARTF 1120	Observational Drawing	4
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	5
ARTD 3470	Animation 1	4

Requirements for Art and Design Majors

An overall GPA of 2.500 is required for the minor. *Note:* This minor is not available to students in the BFA in Media Arts program.

Required Courses

ARTF 1120	Observational Drawing	4
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	5
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

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

An overall GPA of 2.500 is required for the minor.

Art Required Courses

ARTF 1120	Observational Drawing	4
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5

Art Elective Courses

Complete three of the following:		12-15
ARTF 1121	Conceptual Drawing	
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	
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 and ARTD 2361	Photo Basics and Photo Tools	
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	
ARTD 2380 and ARTD 2381	Video Basics and Video Tools	
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

An overall GPA of 2.500 is required for the minor. *Note:* This minor is not available to students in the BA in Art program.

Required Courses

ARTF 1120	Observational Drawing	4
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5

Elective Courses

Complete three of the following:		12-15
----------------------------------	--	-------

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 and ARTD 2361	Photo Basics and Photo Tools
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools
ARTD 2380 and ARTD 2381	Video Basics and Video Tools
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

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

An overall GPA of 2.500 is required for the minor.

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 2214	American Art
ARTH 2215	History of Graphic Design
ARTH 2217	American Animation Film
ARTH 4500	Arts of the African Diaspora
ARTH 5100	Contemporary Art Theory and Criticism
ARTH 5200	Issues in Contemporary Art
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts
ARTH 5400	Contemporary Visual Culture
ARTH 5500	Art and New Media: History and Theory

ARTH 5902	Special Topics in Art and Design History
ARTE 2501	Art and Design Abroad: History
ARTE 4902	Special Topics in Art and Design History

Requirements for Art and Design Majors

An overall GPA of 2.500 is required for the minor. *Note:* This minor is not available to students in the BA in Art program.

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 2214	American Art
ARTH 2215	History of Graphic Design
ARTH 2217	American Animation Film
ARTH 4500	Arts of the African Diaspora
ARTH 5100	Contemporary Art Theory and Criticism
ARTH 5200	Issues in Contemporary Art
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts
ARTH 5400	Contemporary Visual Culture
ARTH 5500	Art and New Media: History and Theory
ARTH 5902	Special Topics in Art and Design History
ARTE 2501	Art and Design Abroad: History
ARTE 4902	Special Topics in Art and Design History

GPA Requirement

2.500 GPA required in the minor

Experience Design, Minor

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

An overall GPA of 2.500 is required for the minor.

Required Courses

ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5
ARTG 1250	Design Process Context and Systems	4
ARTG 3462	Experience Design 1	4

Elective

Complete two of the following: 8-10

ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	
ARTG 2260	Programming Basics	
ARTG 3250	Physical Computing	
ARTG 3500	Transmedia Design	
ARTG 3461	Service Design	
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	
ARTD 2100	Narrative Basics	
ARTE 3901	Art and Design Special Topics	

Requirements for Art and Design Majors

An overall GPA of 2.500 is required for the minor. *Note:* This minor is not open to students pursuing the BFA in Design.

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:		8-10
ARTG 2260	Programming Basics	
ARTG 3250	Physical Computing	
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	
ARTG 3500	Transmedia Design	
ARTG 3461	Service Design	
ARTD 2100	Narrative Basics	
ARTE 3901	Art and Design Special Topics	

GPA Requirement

2.500 GPA required in the minor

Game Art, Minor

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 pre-requisite course(s) ahead of time.

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

Requirements for Non-Art and Design Majors

An overall GPA of 2.500 is required for the minor.

Code	Title	Hours
Required Courses		

ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	5
ARTF 1120	Observational Drawing	4
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5

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

An overall GPA of 2.500 is required for the minor. *Note:* This minor is not available to students in the BFA in Media Arts program.

Code	Title	Hours
Required Courses		

ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	5
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

Graphic and Information Design, Minor

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

An overall GPA of 2.500 is required for the minor.

Required Courses

ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTG 1250	Design Process Context and Systems	4
ARTG 2250 and ARTG 2251	Typography 1 and Type Tools	5

Electives

Complete two of the following:	8-9
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools
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
ARTE 3901	Art and Design Special Topics

Requirements for Art and Design Majors

An overall GPA of 2.500 is required for the minor. *Note:* This minor is not available to students in the BFA in Design program.

Required Courses

ARTG 1250	Design Process Context and Systems	4
ARTG 2250 and ARTG 2251	Typography 1 and Type Tools	5

Electives

Complete three of the following:	12
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 3461	Service Design
ARTG 4554	Typography 3
ARTH 2215	History of Graphic Design
ARTE 3901	Art and Design Special Topics

GPA Requirement

2.500 GPA required in the minor

Interaction Design, Minor

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

An overall GPA of 2.500 is required for the minor.

Required Courses

ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5
ARTG 1250	Design Process Context and Systems	4
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	5
Choose one of the programming courses with lab course:	4-5	
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:	4-5
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools
ARTG 2250 and ARTG 2251	Typography 1 and Type Tools
ARTG 2252	Graphic Design 1
ARTG 3462	Experience Design 1
ARTG 3700	Interaction Design 2: Mobile

Requirements for Art and Design Majors

An overall GPA of 2.500 is required for the minor. *Note:* This minor is not available to students in the BFA in Design program.

Required Courses

ARTG 1250	Design Process Context and Systems	4
ARTG 2250 and ARTG 2251	Typography 1 and Type Tools	5
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	5

Elective

Complete two of the following:	8
ARTG 2260	Programming Basics
ARTG 3451	Information Design 1
ARTG 3462	Experience Design 1
ARTG 3700	Interaction Design 2: Mobile
ARTE 3901	Art and Design Special Topics

GPA Requirement

2.500 GPA required in the minor

Photography, Minor

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

An overall GPA of 2.500 is required for the minor.

Required Courses

ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	5
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 and Design Majors

An overall GPA of 2.500 is required for the minor. *Note:* This minor is not available to students in the BFA in Media Arts program.

Required Courses

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	5
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

Video Arts, Minor

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

An overall GPA of 2.500 is required for the minor.

Required Courses

ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTD 2380 and ARTD 2381	Video Basics and Video Tools	5
ARTD 3480	Video: Sound and Image	4

Electives

Complete two of the following:		8
ARTD 3485	Video Art	
ARTD 5582	Collaborative Video and Community Engagement	
ARTD 4682	Video in Context: Video and Social Change	
MSCR 3385	Video: Story and Sequence	
MSCR 4685	Interactive Documentary	
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 and Design Majors

An overall GPA of 2.500 is required for the minor. *Note:* This minor is not available to students in the BFA in Media Arts program.

Required Courses

ARTD 2380 and ARTD 2381	Video Basics and Video Tools	5
ARTD 3480	Video: Sound and Image	4
ARTD 3485	Video Art	4

Electives

Complete two of the following:		8
ARTD 4582		
ARTD 4682	Video in Context: Video and Social Change	
MSCR 3385	Video: Story and Sequence	
MSCR 4685	Interactive Documentary	
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

Communication Studies

Website (<http://www.northeastern.edu/camd/commstudies>)

Dale A. Herbeck, PhD

Professor and Chair

204 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 (<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. 30).” For template program requirements, visit the myNEU web portal (<http://www.myneu.neu.edu>), click on the “Self-Service” tab, then on “My Degree Audit.”

Programs

Bachelor of Arts (BA)

- Communication Studies (p. 89)
- Communication Studies and Media and Screen Studies (p. 91)
- Communication Studies and Sociology (p. 93)
- English and Communication Studies (p. 96)
- Human Services and Communication Studies (p. 99)
- Media Arts and Communication Studies (p. 100)
- Political Science and Communication Studies (p. 103)

Bachelor of Science (BS)

- Computer Science and Communication Studies (p. 95)
- Music and Communication Studies with Concentration in Music Industry (p. 101)
- Political Science and Communication Studies (p. 105)

Minors

- Communication Studies (p. 107)
- Media Production (p. 107)
- Oratory and Public Speaking (p. 107)
- Political Communication (p. 108)
- Professional Presentation (p. 108)
- Rhetoric (p. 108)
- Social Activism (p. 108)

Communication 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath 1-8 attributes EI, AD, SI, and ER are met through the major course requirements. In order to graduate, the student must meet ND, IC, FQ, and DD in their electives.

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Communication Studies Major Requirements

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 1310	Classical Foundations of Communication	
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 writing-intensive courses in communication studies from the following list: 8

COMM 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3331	Argumentation and Debate	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3500	Environmental Issues, Communication, and the Media	
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 4131	Sex and Interpersonal Communication	
COMM 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4535	Nonverbal Social Interaction	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
COMM 4901	Seminar in Communications	
COMM 4918	Special Topics in Communication Studies	

Capstone

Complete one of the following: 4

COMM 4102	Health Communication Campaigns
COMM 4530	Communication and Quality of Life
COMM 4533	Consultation Skills
COMM 4534	Organizational Communication Training and Development
COMM 4602	Contemporary Rhetorical Theory
COMM 4603	Advocacy Workshop
COMM 4608	Strategic Communication Capstone
COMM 4625	Online Communities
COMM 4901	Seminar in Communications

Communication Studies Electives

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 1101	4 ENGW 1111	4 Vacation	0 Vacation	0
COMM 1112	4 Communicati studies foundation course	4		
MATH 1215	4 Elective	4		
COMM 1000	1 Elective	4		
Elective	4			
	17	16	0	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 Communicati 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 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 Communication studies elective	4 Co-op	0
	Communicati studies elective	4 Elective	4	
	Elective	4		
	Elective	4		
	0	16	8	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 1101	4 Communication studies foundation course	4 Vacation	0 Vacation	0
COMM 1112	4 ENGW 1111	4		
MATH 1215	4 Elective	4		
COMM 1000	1 Elective	4		
Elective	4			
	17	16	0	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
Communication studies writing-intensive	4	Co-op	0	Co-op	0
Communication studies elective	4			Elective	4
Foreign language core course	4				
Elective	4				
	16	0	0		8
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
Communication studies elective	4	Co-op	0	Co-op	0
Communication studies elective	4				
ENGW 3315	4				
Elective	4				
	16	0	0		0
Year 5					
Fall	Hours	Spring	Hours	Summer 1	Hours
Communication studies writing-intensive	4	Communication studies capstone	4		
Elective	4	Elective	4		
Elective	4	Elective	4		
Foreign language core course	4	Elective	4		
	16		16		

Total Hours: 130

Communication Studies and Media and Screen 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 2500	Digital Media Research	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3300	Media Activism	
MSCR 3402	Television and Society	
MSCR 3422	Media Audiences	
MSCR 3423	Twentieth-Century Media	
MSCR 3426	Popular Music as Media Form	
MSCR 3428	Television Studies	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
MSCR 3438	Celebrity Culture	
MSCR 3500	Documentary Storytelling	
CINE 2160	Narrative Filmmaking	
CINE 2350	History of Film	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 2394	Modern Film and Global Culture	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
CINE 3900	Film and Psychoanalysis	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Video Art	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
MSCR 4206	Age, Media, and Representation	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4610	The Networked Self	

MSCR 4622	Special Topics in Media and Screen Studies
MSCR 4685	Interactive Documentary
MSCR 4970	Junior/Senior Honors Project 1
MSCR 4971	Junior/Senior Honors Project 2
MSCR 4991	Research
MSCR 4992	Directed Study
MSCR 4993	Independent Study
MSCR 4996	Experiential Education Directed Study
CINE 3389	Screenwriting
CINE 4500	Modernism/Modernity and Film
CINE 4550	Cinema Studies Seminar
CINE 4560	Directing the Short Fiction Film
ARTD 4582	
ARTD 4682	Video in Context: Video and Social Change

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	
COMM 1310	Classical Foundations of Communication	
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 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3331	Argumentation and Debate	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3500	Environmental Issues, Communication, and the Media	
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 4131	Sex and Interpersonal Communication
COMM 4533	Consultation Skills
COMM 4534	Organizational Communication Training and Development
COMM 4535	Nonverbal Social Interaction
COMM 4602	Contemporary Rhetorical Theory
COMM 4605	Youth and Communication Technology
COMM 4631	Crisis Communication and Image Management
COMM 4901	Seminar in Communications
COMM 4918	Special Topics in Communication Studies

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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

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	4	Elective	4		
		or 2301					
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						
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
Integrative course	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 elective	4	MSCR 4623	4
Integrative course	4	Elective	4
MSCR advanced elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 129

Communication Studies and Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Communication Studies Requirements

Code	Title	Hours
Communications Studies Common Requirements		
COMM 1000	Communication Studies at Northeastern	1
COMM 1101	Introduction to Communication Studies	4
COMM 1112 or COMM 2301	Public Speaking Communication Research Methods	4

Foundation Course		
Complete one of the following:		4
COMM 1210	Persuasion and Rhetoric	
COMM 1310	Classical Foundations of Communication	
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 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3331	Argumentation and Debate	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3500	Environmental Issues, Communication, and the Media	
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 4131	Sex and Interpersonal Communication	
COMM 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4535	Nonverbal Social Interaction	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
COMM 4901	Seminar in Communications	
COMM 4918	Special Topics in Communication Studies	

Communication Studies Electives		
Complete three COMM courses.		12

Sociology Requirements

A grade of C or higher is required in 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 and SOCL 1121	Society and Health and Society and Health Recitation	
SOCL 1220	Sociology of Boston	
SOCL 1228	Social Problems	
SOCL 1235	Social Psychology	
SOCL 1241	Sociology of Violence	
SOCL 1240	Sociology of Prejudice and Violence	
SOCL 1245	Sociology of Poverty	
SOCL 1247	Urban Social Problems	
SOCL 1255	Sociology of the Family	
SOCL 1256	Violence in the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1283	Globalization and Social Change	
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 3402	Feminist Perspectives on Society	
SOCL 3406	Class, Crime, and the Legal System	
SOCL 3407	The Immigrant Experience: Ethnicity, Race, and Inequality in America	
SOCL 3440	Sociology of Human Service Organizations	
SOCL 3408	Sociology of Organizations	
SOCL 3441	Sociology of Health and Illness	
SOCL 3451	Privilege	
SOCL 3455	Seminar in Urban Sociology	
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 4513	Political Sociology	
SOCL 4514	"The Wire" and the Study of Urban Inequalities	
SOCL 4518	Law and Social Issues	
SOCL 4520	Race, Class, and Gender	
SOCL 4523	Sexualities	
SOCL 4528	Computers and Society	
SOCL 4535	European Union: Social and Political	
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	
SOCL 1297	Sociology of Popular Culture	
Capstone/Senior Seminar Option		
Complete one of the following two options:		8
<i>Communications Capstone Option</i>		
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 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4603	Advocacy Workshop	
COMM 4625	Online Communities	
SOCL 3000 to SOCL 4999		
<i>Sociology Senior Seminar Option</i>		
Complete SOCL 4600 and one COMM course from the following list:		
SOCL 4600	Senior Seminar	
COMM 3000 to COMM 4999		

Communications 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 Sociology Combined-Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

Computer Science and Communication Studies, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		

CS 1200	Computer Science/Information Science Overview 1	1
---------	-------------------------------------------------	---

Computer Science Fundamental Courses

A grade of C– or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 Requirements

CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500	Software Development	4
CS 4550	Web Development	4
CS 4800	Algorithms and Data	4

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

Computer Science Elective Courses

Complete two courses from the following ranges:		8
IS 2000 to IS 5999 but not IS 4900		
CS 2600 to CS 5999 but not CS 5010		

Co-op Preparation

CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
or EEAM 2000	Professional Development for Co-op	

Mathematics Requirement

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	4

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	
COMM 1310	Classical Foundations of Communication	

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 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3331	Argumentation and Debate	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3500	Environmental Issues, Communication, and the Media	
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 4131	Sex and Interpersonal Communication	
COMM 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4535	Nonverbal Social Interaction	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
COMM 4901	Seminar in Communications	
COMM 4918	Special Topics in Communication Studies	

Communication Studies Electives

Complete three courses from the following range: ¹		12
COMM 1131 to COMM 4996		

¹ Special Topics in Communication Studies (COMM 4912), Junior/Senior Honors Project 1 (COMM 4970), Junior/Senior Honors Project 2 (COMM 4971), and Research (COMM 4991) are excluded.

Writing Requirements

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
Choose 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.

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		4

PHIL 1145	Technology and Human Values
SOCL 1280	The Twenty-First-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

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Interpreting Culture
- 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.

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

134 total semester hours required

English and Communication 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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.		
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	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 2296	Early African-American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 2200	The Bible	
ENGL 2210	Medieval British Literature	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	
ENGL 2230	Sixteenth-Century British Literature	
ENGL 2240	Seventeenth-Century British Literature	
ENGL 2250	Eighteenth-Century British Literature	
ENGL 2295	Revolution and Revolt in Early American Literature	
ENGL 2296	Early African-American Literature	
ENGL 3151	Topics in Early Literatures Abroad	
ENGL 3607	Chaucer	
ENGL 3618	Milton	
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 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2270	Victorian Literature	
ENGL 2280	Nineteenth-Century British Fiction	
ENGL 2330	The American Renaissance	

ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	Nineteenth-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
Twentieth- and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2290	Twentieth-Century British Literature	
ENGL 2291	Major Twentieth-Century British Novelists	
ENGL 2355	Modern American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture Abroad	
ENGL 2610	Contemporary Israeli Literature and Art Abroad	
or JWSS 2610	Contemporary Israeli Literature and Art Abroad	
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure	
ENGL 4060	Topics in 20th- and 21st-Century Literatures	
Theories and Methods		
Complete one of the following:		4
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2830	Literary Theory	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 4400	Opening the Archive	
ENGL 4110	Topics in Rhetoric and Writing Studies	
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 1501	British Literature 1800 to Present	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2620	What Is Nature? (Abroad)
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text Abroad
ENGL 3488	Film and Text
ENGL 3572	Fantasy
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel

Writing

Complete one of the following: 4

ENGL 2700	Creative Writing
ENGL 2770	Writing to Heal
ENGL 3376	Creative Nonfiction
ENGL 3377	Poetry Workshop
ENGL 3378	Fiction Workshop
ENGL 2710	Style and Editing
ENGL 2740	Writing and Community Engagement
ENGL 2760	Writing in Global Contexts
ENGL 3375	Writing Boston
ENGL 3379	Nonfiction Workshop
ENGL 3380	Topics in Writing
ENGL 3382	Publishing in the 21st Century

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

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 1310	Classical Foundations of Communication
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 3201	Health Communication
COMM 3230	Interpersonal Communication
COMM 3304	Communication and Inclusion
COMM 3320	Political Communication
COMM 3331	Argumentation and Debate
COMM 3414	Great Speakers and Speeches 2, 1930–Present
COMM 3415	Communication Criticism
COMM 3500	Environmental Issues, Communication, and the Media
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 4131	Sex and Interpersonal Communication
COMM 4533	Consultation Skills
COMM 4534	Organizational Communication Training and Development
COMM 4535	Nonverbal Social Interaction
COMM 4602	Contemporary Rhetorical Theory
COMM 4605	Youth and Communication Technology
COMM 4631	Crisis Communication and Image Management
COMM 4901	Seminar in Communications
COMM 4918	Special Topics in Communication Studies

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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Human Services Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	4
HUSV 3900	Introduction to Social Policy	4
Research		
Complete one of the following:		4
HUSV 3700	Research Methods for Human Services	
SOCL 2321	Research Methods in Sociology	
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	
COMM 1310	Classical Foundations of Communication	
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 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3331	Argumentation and Debate	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3501	Free Speech: Law and Practice	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4131	Sex and Interpersonal Communication	
COMM 4535	Nonverbal Social Interaction	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4605	Youth and Communication Technology	
COMM 4901	Seminar in Communications	
COMM 4918	Special Topics in Communication Studies	

Communication Studies Electives		
Complete three of the following:		12
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	
COMM 1414	Great Speakers and Speeches 1, 1630–1930	
COMM 1511	Communication and Storytelling	
COMM 1990	Elective	
COMM 2105	Social Networks	
COMM 2312	Voice and Articulation	
COMM 2350	Producing for the Entertainment Industry	
COMM 2402	Presentation, Style, and Professional Communication	
COMM 2450	Sound Production for Digital Media	
COMM 2451	Sports Broadcasting	
COMM 2454	Broadcast Management and Programming	
COMM 2531	Application of Organizational Communication	
COMM 2990	Elective	
COMM 3306	International Communication Abroad	
COMM 3409	Advocacy Writing	
COMM 3451	Advertising Practices	
COMM 3534	Group Communication	
COMM 3550	Television Field Production	
COMM 3650	Television Studio Production	
COMM 3990	Elective	
COMM 4630	Assessment Technique and Planning	

COMM 4650	Digital Editing for TV
COMM 4750	Advanced Digital Editing for TV and Film
COMM 4916	Organizational Communication Practicum
COMM 4940	Special Topics in Media Production
COMM 4990	Elective
COMM 4992	Directed Study
COMM 4993	Independent Study
COMM 4994	Internship in Communication
COMM 4996	Experiential Education Directed Study

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 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4603	Advocacy Workshop	
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 from the following range:		4
COMM 3000 to COMM 4999		

Integrative Course

Code	Title	Hours
HUSV 5200	Strategic Communications for Nonprofit Organizations	3

Program Requirement

128 total semester hours required

Communication Studies Major Grade Requirement

No more than two grades below a C in communication studies courses may be used to satisfy degree requirements.

Media Arts and Communication 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
Drawing Fundamentals		
ARTF 1120 or ARTF 1121	Observational Drawing or Conceptual Drawing	4
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:		10
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	
ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	
ARTD 2380 and ARTD 2381	Video Basics and Video Tools	
Art and Design Electives		
Complete two of the following:		8-10
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	
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	
ARTE 4902	Special Topics in Art and Design History	
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 2214	American Art	
ARTH 4500	Arts of the African Diaspora	

ARTH 5100	Contemporary Art Theory and Criticism
ARTH 5200	Issues in Contemporary Art
ARTH 5300	Postmodernism: Theory and Practice in the Visual Arts
ARTH 5400	Contemporary Visual Culture
ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools
ARTD 2380 and ARTD 2381	Video Basics and Video Tools
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
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	
COMM 1310	Classical Foundations of Communication	
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 3201	Health Communication	
COMM 3230	Interpersonal Communication	

COMM 3304	Communication and Inclusion
COMM 3320	Political Communication
COMM 3331	Argumentation and Debate
COMM 3414	Great Speakers and Speeches 2, 1930–Present
COMM 3415	Communication Criticism
COMM 3500	Environmental Issues, Communication, and the Media
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 4131	Sex and Interpersonal Communication
COMM 4533	Consultation Skills
COMM 4534	Organizational Communication Training and Development
COMM 4535	Nonverbal Social Interaction
COMM 4602	Contemporary Rhetorical Theory
COMM 4605	Youth and Communication Technology
COMM 4631	Crisis Communication and Image Management
COMM 4901	Seminar in Communications
COMM 4918	Special Topics in Communication Studies

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

Music and Communication Studies With Concentration in Music Industry, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Music Industry Requirements

Code	Title	Hours
Introduction to College		
MUSC 1000	Music at Northeastern	1
Music Theory Requirement		
MUSC 1201	Music Theory 1	4
Introductory Music Industry		
MUSI 1230	Introduction to Music Industry	4
Historical Traditions		
Complete two of the following:		8
MUSC 2311	Historical Traditions: America	
MUSC 2312	Historical Traditions: Classical	
MUSC 2313	Historical Traditions: World	
MUSC 2316	Historical Traditions: History of the Music Industry	
MUSC 3550	Historical Traditions: Special Topics	
MUSC 3560	Historical Traditions: Music since 1900	
Music Industry Electives		
Complete two of the following:		8
MUSC 2210	Songwriting 1	
MUSI 2231	Music Licensing for Media	
MUSI 2232	Music Recording 1	
MUSI 2233	Music in the Online and Mobile Environment	
MUSI 2330	Performing Arts Administration	
MUSI 2332	Music Publishing and Royalties	
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	
MUSC 3337	Writing about Music	
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	
MUST 1220	Introduction to Music Technology	
MUST 3421	Digital Audio Processing	
Business Electives		
Complete two courses in the following subject areas:		8
ACCT, BUSN, ENTR, FINA, HRMG, INTB, MGMT, ORGB, MGSC, MISM, MKTG, SCHM, and STRT		

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 1310	Classical Foundations of Communication	
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 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3331	Argumentation and Debate	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3500	Environmental Issues, Communication, and the Media	
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 4131	Sex and Interpersonal Communication	
COMM 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4535	Nonverbal Social Interaction	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
COMM 4901	Seminar in Communications	
COMM 4918	Special Topics in Communication Studies	

Communication Studies Electives

Complete three COMM courses. 12

Integrative Requirement

Complete one of the integrative options below. If a communication studies course is taken, an additional music course, numbered 2000 or higher, is required.

Code	Title	Hours
MUSI 4601	Seminar in Music Industry	4

Communication Studies Option

Complete two of the following courses. One communication studies course is required: 8

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

Political Science and Communication 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Political Science Major 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 2326	Premodern 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 from the following range:		8
POLS 3300 to POLS 5999		
Political Science Electives		
Complete two courses from the following range:		8
POLS 2000 to POLS 5999		
Methodology		
POLS 2399	Research Methods in Political Science	4

or COMM 2301 Communication Research Methods

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. 104).

- American Political Institutions
- Campaigns and Elections
- Identity, Culture, and Politics
- Law and Legal Studies
- Public Policy

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 1310	Classical Foundations of Communication	
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	
COMM 1414	Great Speakers and Speeches 1, 1630–1930	
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 3331	Argumentation and Debate	
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 3500	Environmental Issues, Communication, and the Media	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4102	Health Communication Campaigns	
COMM 4533	Consultation Skills	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4603	Advocacy Workshop	
COMM 4625	Online Communities	
COMM 4631	Crisis Communication and Image Management	
COMM 4901	Seminar in Communications	

COMM 4918	Special Topics in Communication Studies
COMM 4992	Directed Study
COMM 4994	Internship in Communication

Integrative Requirements

Code	Title	Hours
------	-------	-------

Integrative Courses

POLS 3320 or COMM 3320	Politics and Mass Media Political Communication	4
POLS 2333	Politics and Film	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 4533	Consultation Skills
COMM 4534	Organizational Communication Training and Development
COMM 4602	Contemporary Rhetorical Theory
COMM 4603	Advocacy Workshop
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 2355	Intergovernmental Relations
POLS 3300	The U.S. Congress
POLS 3302	Judicial Process and Behavior
POLS 3304	Presidential Nominating Process
POLS 3305	The American Presidency
POLS 3307	Public Policy and Administration
POLS 3310	Public Opinion, Voting, and Elections
POLS 3315	Interest Groups and Public Policy
POLS 3320	Politics and Mass Media

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	Campaign and Elections Practicum	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	Intergovernmental Relations
POLS 3310	Public Opinion, Voting, and Elections
POLS 3162	Local Campaigns and Elections
POLS 3320	Politics and Mass Media
POLS 3402	Survey Research and Polling
POLS 3304	Presidential Nominating Process

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
------	-------	-------

Core Course

POLS 3415 or POLS 3418	Ethnic Political Violence Nationalism	4
---------------------------	------------------------------------------	---

Electives

Complete three of the following: 12

POLS 2333	Politics and Film
POLS 2336	Politics and the Arts
POLS 2360	Politics of Poverty
POLS 2368	Music and Politics
POLS 2370	Religion and Politics
POLS 2375	Gender and Politics
POLS 2380	Latino Politics in the United States
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
POLS 3320	Politics and Mass Media
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 2385	U.S. Health and Welfare Policy
POLS 2390	Science, Technology, and Public Policy
POLS 2395	Environmental Politics and Policy
POLS 3315	Interest Groups and Public Policy
POLS 3402	Survey Research and Polling
POLS 3410	Nontraditional Security Issues
POLS 3412	Homeland Security Policy and Politics
POLS 3425	U.S. Foreign Policy
POLS 4948	Community-Based Research Practicum

Political Science and Communication Studies, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Political Science Major 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 2326	Premodern 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 from the following range:		8
POLS 3300 to POLS 5999		
Political Science Electives		
Complete two courses from the following range:		8
POLS 2000 to POLS 5999		
Methodology		
POLS 2399	Research Methods in Political Science	4
or COMM 2301	Communication Research Methods	

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. 106).

- American Political Institutions
- Campaigns and Elections

- Identity, Culture, and Politics
- Law and Legal Studies
- Public Policy

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 1310	Classical Foundations of Communication	
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	
COMM 1414	Great Speakers and Speeches 1, 1630–1930	
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 3331	Argumentation and Debate	
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 3500	Environmental Issues, Communication, and the Media	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4102	Health Communication Campaigns	
COMM 4533	Consultation Skills	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4603	Advocacy Workshop	
COMM 4625	Online Communities	
COMM 4631	Crisis Communication and Image Management	
COMM 4901	Seminar in Communications	
COMM 4918	Special Topics in Communication Studies	
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	Politics and Film	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 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4603	Advocacy Workshop	
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:		
POLS 2350	State and Local Politics	
POLS 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	

POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	
<i>Electives</i>		
Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	

Communication Studies, Minor

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

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	
COMM 1310	Classical Foundations of Communication	

Elective Courses

Complete three of the following: 12

COMM 1131	Sex, Relationships, and Communication	
COMM 1210	Persuasion and Rhetoric	
COMM 1225	Communication Theory	
COMM 1231 to COMM 2304		
COMM 2312	Voice and Articulation	
COMM 2402	Presentation, Style, and Professional Communication	
COMM 2350	Producing for the Entertainment Industry	
COMM 2501	Communication Law	
COMM 2450	Sound Production for Digital Media	
COMM 2451	Sports Broadcasting	
COMM 2454	Broadcast Management and Programming	
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	
COMM 4750	Advanced Digital Editing for TV and Film	

GPA Requirement

2.000 GPA required in the minor

Media Production, Minor

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 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

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

Complete two of the following: 8

COMM 2451	Sports Broadcasting	
COMM 2454	Broadcast Management and Programming	
COMM 2650	The Business of Entertainment	
COMM 3450	Voice-Over Artist	
COMM 3750	Special Effects and Postproduction for Television	
COMM 4650	Digital Editing for TV	
COMM 4750	Advanced Digital Editing for TV and Film	
COMM 4940	Special Topics in Media Production	

GPA Requirement

3.000 GPA required in the minor

Oratory and Public Speaking, Minor

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

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

Public Speaking

COMM 1112	Public Speaking	4
-----------	-----------------	---

Elective Courses

Complete four of the following: 16

COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1511	Communication and Storytelling	
COMM 2312	Voice and Articulation	
COMM 2402	Presentation, Style, and Professional Communication	
COMM 3331	Argumentation and Debate	

COMM 4603 Advocacy Workshop

GPA Requirement

2.000 GPA required in the minor

Political Communication, Minor

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

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

Introductory Courses

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	Interpreting the Day's News
POLS 1150	American Government

Intermediate/Advanced Courses

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
COMM 4603	Advocacy Workshop

Journalism

JRNL 2350	History of Journalism
JRNL 3550	Law of the Press

Political Science

POLS 3310	Public Opinion, Voting, and Elections
POLS 3320	Politics and Mass Media

GPA Requirement

2.000 GPA required in the minor

Professional Presentation, Minor

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

Presentation Requirement

Complete 2 of the following courses: 8

COMM 1112	Public Speaking
COMM 1113	Business and Professional Speaking
COMM 1210	Persuasion and Rhetoric
COMM 1511	Communication and Storytelling
COMM 2402	Presentation, Style, and Professional Communication

Performance Requirement

Complete 2 of the following courses: 8

THTR 1125	Improvisation for Entrepreneurs
THTR 1127	Improvisation for Entrepreneurs—Abroad
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 Cameras

GPA Requirement

2.000 GPA required in minor

Rhetoric, Minor

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

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 ElectiveENGL 1160 Introduction to Rhetoric 4
or COMM 1210 Persuasion and Rhetoric**Electives**

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 1414	Great Speakers and Speeches 1, 1630–1930
COMM 3331	Argumentation and Debate
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

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

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

Introductory Courses

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

SOCL 1346 Environmental Activism and Movements: An Open Classroom

Theatre

THTR 1215 Activism and Performance

Intermediate/Advanced Courses

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

POLS 3315 Interest Groups and Public Policy

Sociology

SOCL 2268 Social Movements

SOCL 2450 Class, Power, and Social Change

SOCL 3401 Social Policy and Intervention

Service-Learning

Complete one of the following: 4

COMM 4534 Organizational Communication Training and Development

COMM 4603 Advocacy Workshop

HUSV 3550 Social Policy, Advocacy, and Activism

POLS 2360 Politics of Poverty

SOCL 3470 Social Conflict and Community Service

GPA Requirement

2.000 GPA required in the minor

Game Design

Website (<http://www.northeastern.edu/camd/gamedesign>)

Andrea Raynor, MFA

Interim Chair

Celia Pearce

Associate Professor and Faculty Mentor

136 Meserve Hall

617.373.3928

617.373.4107 (fax)

Dara-Lynn Pelechatz, Administrative Officer,
d.pelechatz@northeastern.edu

Games are an important part of popular culture that now have grown into the largest segment of the global entertainment industry. No longer constrained to computers and consoles, games have become ubiquitous across every facet of the media landscape. The industry has evolved from being dominated by large commercial studios, to a wider variety of scales and styles of game maker, and has expanded beyond entertainment to all areas of society from fine arts, to education, to government, to health, to science. The growth of digital games has generated renewed interest in physical and board games, as well as hybrid “transmedia” games that integrate a variety of different media platforms. The ability to think literally “outside the box” of conventional game platforms has become essential to surviving in this new games ecosystem. Games at Northeastern, a multidisciplinary program between the College of Arts, Media and Design and the College of Computer and Information Science, is pushing the boundaries of innovation in games through multidisciplinary collaborations bridging design and research engaging a broad array of fields including psychology, computing, anthropology, humanities, social science, engineering, and emerging disciplines such as health informatics, network science, and digital humanities.

The multidisciplinary nature of games both attracts and produces students with varied interests in arts, expression, and the science of games to collaboratively explore the potential of games across media through critical making and research. Through shared and discipline-specific courses, undergraduates enroll in the BFA—which emphasizes creativity, design, and expression in games, or the BS—which focuses on realizing vision and innovation through technical implementation. The program also introduces students to the wide array of game genres and applications, from independent and art games, to serious documentary and activist games, to games for health, as well as research disciplines such as analytics and ethnography, human-computer interaction, and user testing. Students will push the boundaries of games, creating alternative gameplay, exploring new experiential and visual aesthetics, examining how people play and interact with games, or building the technological underpinnings to make it all work.

Each of the game degrees foster experiential learning opportunities utilizing diverse intersections of skills that merge theory and practice, art, and expression blended with technology. Focus is on establishing core skills that engage critical thinking as excellent preparation for professional practice in game creation and research 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 landscape. Practical and technical experiential training will be offered via Northeastern’s world-renowned co-op program.

Games at Northeastern currently offers three undergraduate degree programs:

- BFA in Digital Art and Game Design (p. 111)
- BFA in Games (p. 110)
- BS in Computer Science and Game Development (p. 113)

MS in game science and design as well as a certificate program in game analytics are offered.

Entering the Major or Combined Majors

Students interested in games are encouraged to inquire and apply. Incoming freshmen may select any of our degree offerings directly upon application.

The curriculum shares a set of foundational courses, and each degree also has its own discipline-specific courses targeted to its own set of subdisciplines. Students interested in game design, specifically the creation of game mechanics and gameplay, as well as integration of game elements, would choose the BFA in games; those interested in visual arts as applied to games would take the BFA in digital art and game design; and those interested in computing and game development, implementing games through coding, and building underlying technologies such as game engines, would take the BS in computer science and game development.

The BFA in digital art and game design combined major offers students an opportunity to develop skills in the visual arts within games, while focusing on 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 combined majors encourage students to think 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 all game design combined 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 BS in computer science degree.

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. 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 BS in computer science degree.

The BS in computer science and game development is inherently interdisciplinary and exposes students to both faculty and students from both the College of Computer and Information Science and the College of Arts, Media and Design. The focus of the BS degree is to learn the software development side of game implementation. Students have an opportunity to learn how to build high-quality software and games. Students interact and collaborate with students in other game degrees through project-oriented courses that are geared toward developing games for students' portfolios and resums. Students will have a home college in the College of Computer and Information Science but will have a minimum of four interdisciplinary courses where students interact and work together with BFA students in the College of Arts, Media and Design.

All degree offerings come together in several courses, including the following:

GAME 1110	Games and Society	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

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

Academic Progression Standards

Same as college standards.

Programs

Bachelor of Fine Arts (BFA)

- Games (p. 110)
- Digital Art and Game Design (p. 111)

Bachelor of Science (BS)

- Computer Science and Game Development (p. 113)

Minors

- Game Design (p. 115)
- Game Art (p. 115)

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. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

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

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 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5
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 2350	(Games as Theatre pending approval)	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	Business Modeling for Entrepreneurs	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 4255	(Generative Game Designs pending approval)	

Game Electives

Complete three GAME courses. 12

Games Major Credit/GPA Requirement

Complete 98 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 and ARTF 2224	5	Vacation	0	Vacation	0
ARTF 1122 and ARTF 1123	5	GAME 1110	4				
GAME 2500	4	MATH 1260	4				
Art history elective	4	Elective	4				
ENGW 1111	4						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ARTG 2260	4	GAME 2350 (Pending Approval)	4	Vacation	0	Vacation	0
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	0	Vacation	0
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: 131

Digital Art and Game Design, BFA

The BFA in digital art and game design combined major offers students an opportunity to develop skills in the visual arts within games, while focusing on 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 combined majors encourage students to think 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 all game design combined 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 BS in computer science degree.

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

Digital Art Courses

Code	Title	Hours
Art and Design Learning Community		
ARTF 1000	Art and Design at Northeastern	1
Art and Design Foundation		
ARTH 1111	Global Art and Design History: Renaissance to Modern	4
ARTF 1120	Observational Drawing	4
ARTF 1121	Conceptual Drawing	4
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5
ARTH 2212	Survey of the Still and Moving Image	4

Digital Art Requirements

Complete two of the following:		10
ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	
ARTD 2380 and ARTD 2381	Video Basics and Video Tools	

Digital Art Electives

Complete two of the following:		8
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 4577	Digital Sculpture and Model Making	
ARTD 5582	Collaborative Video and Community Engagement	

General Requirements

Code	Title	Hours
PSYC 1101	Foundations of Psychology	4
MATH 1260	Math Fundamentals for Games	4
CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500	5

Computing and Social Issues

This course should be taken only after the student has completed 56 semester hours.

Complete one of the following:		4
SOCL 4528	Computers and Society	
PHIL 1145	Technology and Human Values	
MSCR 1220	Media, Culture, and Society	

Game Design Courses

Code	Title	Hours
Game Design		
GAME 1110	Games and Society	4
GAME 3300	Game Interface 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
Interactive Media		
ARTD 2100	Narrative Basics	4
ARTG 2260	Programming Basics	4

Game Design Electives

Code	Title	Hours
Complete three courses from the following lists. If the course has prerequisites, the student must complete those first unless permission is obtained in advance from the faculty.		12-15
Game Design		
GAME 3150	Game Design Algorithms	
GAME 3400	Level Design and Game Architecture	
GAME 3250	Artificial Intelligence for Games	
Art and Design		
ARTH 2210	Modern Art and Design History	
Graphic Design		
ARTG 2252	Graphic Design 1	

ARTG 2250 and ARTG 2251	ARTG 3350	Typography 1 and Type Tools	Typography 2
Interactive Media			
ARTH 1100	ARTD 2200	Interactive Media and Society	Interactive Narrative
ARTG 2300	ARTG 2400 and ARTG 2401	Business Literacy for Design and Media	Interaction Design 1: Responsive and Interaction Design Tools
ARTE 4901		Special Topics in Art and Design Studio	
Computer Science			
CS 2510 and CS 2511	CS 2800 and CS 2801	Fundamentals of Computer Science 2 and Lab for CS 2510	Logic and Computation and Lab for CS 2800
CS 3200	CS 3500	Database Design	Object-Oriented Design
CS 3800	CS 4100	Theory of Computation	Artificial Intelligence
CS 4300	IS 4300	Computer Graphics	Human Computer Interaction
CS 4400	CS 4550	Programming Languages	Web Development
CS 4800		Algorithms and Data	
Psychology			
PSYC 3452	PSYC 3464	Sensation and Perception	Psychology of Language
PSYC 3466		Cognition	

Required General Electives

Code	Title	Hours
	Complete three general electives.	12

Program Requirement

138 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
ARTF 1000	1	ARTF 1124	4	Vacation	0
ARTF 1120	4	ARTF 1121 and ARTF 1125	5		
ARTF 1122 and ARTF 1123	5	ARTH 2212	4		
ARTH 1111	4	GAME 1110	4		
Elective	4	GAME 1111	0		
	18		17		0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
ARTF 2220 and ARTF 2221	5	ARTD 2100	4	Vacation	Vacation

ARTF 2223 and ARTF 2224	5	GAME 2150	4
CS 2500 and CS 2501	5	PSYC 1101	4
Elective	4	Digital art elective	4
		EEAM 2000	1
	19		17
			0
			0

Year 3				
Fall	Hours	Spring	Hours	Summer 1
GAME 3300	4	Co-op	Co-op	Vacation
GAME 3700	4			
Game design elective	4			
Digital art elective	4			
	16		0	0

Year 4				
Fall	Hours	Spring	Hours	Summer 1
GAME 3800	4	Co-op	Co-op	Vacation
Game design elective	4			
Digital art elective	4			
Elective	4			
	16		0	0

Year 5		
Fall	Hours	Spring
GAME 4700	4	GAME 4701
Game design elective	4	Elective
Digital art elective	4	Elective
Elective	4	Elective
	16	16

Total Hours: 135

Computer Science and Game Development, 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. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1

Computer Science Fundamental Courses

A grade of C– or higher is required in each course:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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

Upper-Level Computer Science Courses

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	Software Development	4
CS 4800	Algorithms and Data	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	

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

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 other than GAME 2150, GAME 3150, or GAME 3250	

Any course in the ARTD, ARTE, ARTF, ARTG, ARTH, and ARTS subject areas

CS 2600 to CS 5999 but not CS 5010

IS 2000 to IS 5999 but not IS 4900

MATH 1342 Calculus 2 for Science and Engineering

ECON 2350 Statistics

or PSYC 2320 Statistics in Psychological Research

General Requirements

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 English 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 three general electives.		12

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 Four Years, Two Co-ops in Fall and Summer

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 1801	4 CS 2800 and CS 2801	5 PSYC 1101	4	
CS 2500 and CS 2501	5 GAME 1110 and GAME 1111	4		
GAME 2500	4 MATH 1260	4		
ENGW 1111	4			
	18	18	8	0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3520	4 CS 1210	1 Elective	4 Co-op	0
CS 4800	4 CS 3540	4 Elective	4	
GAME 2010	4 CS 4300	4		
GAME 3700	4 MATH 1341 Game design elective	4		
	16	17	8	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CS 3650 CS 4850 GAME 3800 Game design elective	4 Co-op	0 Co-op	0
	0	16	0	0
Year 4				
Fall	Hours Spring	Hours		
GAME 4700	4 GAME 4701	4		
CS 3700	4 CS/game elective	4		
CS 4500	4 CS 4000	1		
ENGW 3302	4 Computer science elective Elective	4		
	16	17		

Total Hours: 134

Game Design, Minor

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

Foundations of Game Design

GAME 2500 Foundations of Game Design 4

Electives

Complete five of the following: 20-21

Any GAME courses	
ARTD 2100	Narrative Basics
ARTD 2200	Interactive Narrative
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

Game Art, Minor

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 pre-requisite course(s) ahead of time.

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

Requirements for Non-Art and Design Majors

An overall GPA of 2.500 is required for the minor.

Code	Title	Hours
Required Courses		
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	5
ARTF 1120	Observational Drawing	4
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5

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

An overall GPA of 2.500 is required for the minor. *Note:* This minor is not available to students in the BFA in Media Arts program.

Code	Title	Hours
Required Courses		
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	5
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

School of Journalism

Website (<http://www.northeastern.edu/camd/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 (<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. 30)." For template program requirements, visit the myNEU web portal (<http://www.myneu.neu.edu>), click on the "Self-Service" tab, then on "My Degree Audit."

Programs

Bachelor of Arts (BA)

- Journalism (p. 116)
- Media and Screen Studies and Journalism (p. 120)

Bachelor of Science (BS)

- Computer Science and Journalism (p. 118)
- Information Science and Journalism (p. 121)

Minor

- Journalism (p. 123)

Journalism, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Journalism Major Requirements

Students transferring from outside institutions must complete a minimum of five 4-credit journalism courses at Northeastern, and these must include:

JRNL 2201	Journalism 2: Intermediate Reporting
JRNL 2301	Visual Storytelling in Journalism
JRNL 4650	Journalism Ethics and Issues

Introduction to College

JRNL 1000	Journalism at Northeastern	1
-----------	----------------------------	---

Journalism Courses

A grade of C or higher is required:

JRNL 1101	Journalism 1: Fundamentals of Reporting	4
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	Interpreting the Day's News	4
JRNL 2350	History of Journalism	4
JRNL 3550	Law of the Press	4
JRNL 4650	Journalism Ethics and Issues	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 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

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	4 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	16	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 JRNL undergraduate elective	4 Upper-division elective	4 Co-op	0
	JRNL undergraduate elective	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
	JRNL undergraduate elective	4
	Upper-division 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
JRNL 1000	1 JRNL 1101	4 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	16	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
JRNL undergraduate elective	4	JRNL 4650	4
JRNL undergraduate elective	4	JRNL undergraduate elective	4
Elective	4	Upper-division elective	4
Upper-division elective	4	Elective	4
		16	16

Total Hours: 130

Computer Science and Journalism, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C– or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4
Computer Science Senior Seminar		
CS 4000	Senior Seminar	1

or THTR 1170 The Eloquent Presenter

Computer Science Elective Courses

Complete three courses from the following ranges: 12

CS 2600 to CS 7999 but not CS 5010

IS 2000 to IS 7999 but not IS 4900

At least one of these three courses must be from the following list:

IS 4200 Information Retrieval

IS 4300 Human Computer Interaction

IS 4700 Social Information Systems

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	Journalism Ethics and Issues	

Code	Title	Hours
Journalism Courses		

A grade of C or higher is required:

JRNL 1101	Journalism 1: Fundamentals of Reporting	4
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	Interpreting the Day's News	4
JRNL 2350	History of Journalism	4
JRNL 3550	Law of the Press	4
JRNL 4650	Journalism Ethics and Issues	4

Journalism Electives

Complete two JRNL courses. 8

Journalism-Related Requirement

HIST 1130	Introduction to the History of the United States	4
-----------	--------------------------------------------------	---

Mathematics Requirement

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following: 4		
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	

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

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
- 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.

Code	Title	Hours
	Complete seven general electives.	28

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and JRNL courses

Program Requirement

133 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
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0
CS 1800 and CS 1801	4	CS 2800 and CS 2801	5		
CS 2500 and CS 2501	5	JRNL 1101	4		
JRNL 1150	4	HIST 1130	4		
ENGW 1111	4				
		18	18	0	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 3500	4	CS 3200	4	Vacation	0
JRNL 2201	4	CS 4800	4		
MATH 1341	4	JRNL 2301	4		
Elective	4	Elective	4		
		CS 1210	1		
		16	17	0	0
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	JRNL 2350	4	Elective	4
		CS undergraduat elective	4	Elective	4
		0	4	4	0

JRNL 3610	4		
Elective	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
		CS undergraduat elective	4	Elective	4		
		CS undergraduate elective	4				
		JRNL undergraduat elective	4				
		0	16	8	0		

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS 4000	1
		CS 4500	4
		JRNL 4650	4
		JRNL undergraduat elective	4
		SOCL 4528	4
		0	17

Total Hours: 134

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0
CS 1800 and CS 1801	4	CS 2800 and CS 2801	5		
CS 2500 and CS 2501	5	JRNL 1101	4		
JRNL 1150	4	HIST 1130	4		
ENGW 1111	4				
		18	18	0	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 3500	4	Co-op	0	Co-op	0
JRNL 2201	4				
MATH 1341	4				
Elective	4				
CS 1210	1				
		17	0	0	0
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 3200	4	Co-op	0	Co-op	0
CS 4800	4			Elective	4
JRNL 2301	4			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
CS undergraduate elective	4		Elective	4
JRNL 3610	4			
Elective	4			
	16	0	0	8

Year 5

Fall	Hours Spring	Hours
JRNL 3550	4 CS 4000	1
CS undergraduate elective	4 CS 4500	4
CS undergraduate elective	4 JRNL 4650	4
JRNL undergraduate elective	4 JRNL undergraduate elective	4
	SOCL 4528	4
	16	17

Total Hours: 134

Media and Screen Studies and Journalism, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 five of the following: 20

CINE 2350	History of Film
CINE 3389	Screenwriting
CINE 3392	Gender and Film
CINE 2394	Modern Film and Global Culture
CINE 3446	Topics in Documentary Production
CINE 3900	Film and Psychoanalysis
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 2500	Digital Media Research
MSCR 2895	Film Analysis
MSCR 3210	Special Topics in Media and Screen Studies
MSCR 3300	Media Activism
MSCR 3402	Television and Society
MSCR 3422	Media Audiences
MSCR 3423	Twentieth-Century Media
MSCR 3426	Popular Music as Media Form
MSCR 3428	Television Studies
MSCR 3435	Media Industries
MSCR 3437	Media and Identity
MSCR 3438	Celebrity Culture
MSCR 3500	Documentary Storytelling
ARTD 3480	Video: Sound and Image
ARTD 3485	Video Art
ARTH 2212	Survey of the Still and Moving Image

Advanced Media and Screen Electives

Complete two of the following: 8

CINE 3500	Film Theory
CINE 4500	Modernism/Modernity and Film
CINE 4550	Cinema Studies Seminar
CINE 4560	Directing the Short Fiction Film
MSCR 4206	Age, Media, and Representation
MSCR 4208	TV History
MSCR 4602	Media and Democracy
MSCR 4610	The Networked Self
MSCR 4622	Special Topics in Media and Screen Studies
MSCR 4685	Interactive Documentary
MSCR 4970	Junior/Senior Honors Project 1
MSCR 4971	Junior/Senior Honors Project 2
MSCR 4991	Research
MSCR 4992	Directed Study
MSCR 4993	Independent Study
MSCR 4996	Experiential Education Directed Study
ARTD 4582	

ARTD 4682 Video in Context: Video and Social Change

Journalism Requirements

Code	Title	Hours
Journalism Foundations		
JRNL 1101	Journalism 1: Fundamentals of Reporting (A grade of C or higher is required)	4
JRNL 1150	Interpreting the Day'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 5307	Video Newswriting	4
JRNL 5314	Video News Production 1	4
Documentary Production		
JRNL 5309	Documentary Production	4
Ethics and Issues		
JRNL 4650	Journalism Ethics and Issues	4
Journalism Elective		
Complete one course in the following range:		4
JRNL 2000 to 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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

Information Science and Journalism, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C- or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	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	
IS 4700	Social Information Systems	

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	Journalism Ethics and Issues	

Code	Title	Hours
Journalism Courses		
A grade of C or higher is required:		
JRNL 1101	Journalism 1: Fundamentals of Reporting	4
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	Interpreting the Day's News	4

JRNL 2350	History of Journalism	4
JRNL 3550	Law of the Press	4
JRNL 4650	Journalism Ethics and Issues	4
Journalism Electives		
Complete two JRNL courses.		8
Journalism-Related Requirement		
HIST 1130	Introduction to the History of the United States	4

Major Requirements

Code	Title	Hours
ECON 2350	Statistics	4
MATH 1341	Calculus 1 for Science and Engineering	4
PSYC 1101	Foundations of Psychology	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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

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
- 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 satisfied through co-op.

Required General Electives

Code	Title	Hours
Complete four general electives.		16

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and JRNL courses

Program Requirement

133 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
CS 1200	1	CS 2510 and CS 2511	5	Vacation	0	Vacation	0
CS 1800 and CS 1801	4	CS 2800 and CS 2801	5				
CS 2500 and CS 2501	5	JRNL 1101	4				
JRNL 1150	4	HIST 1130	4				
ENGW 1111	4						
		18		18		0	
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 3200	4	Vacation	0	Co-op	0
IS 2000	4	IS 3500	4				
JRNL 2201	4	JRNL 2301	4				
PSYC 1101	4	CS 4800	4				
		CS 1210	1				
		16		17		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	
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		
		JRNL undergraduate elective	4				
		IS elective course	4				
		0		16		8	
Year 5							
Fall	Hours	Spring	Hours	Summer	Hours		
Co-op	0	IS 4900	5				
		JRNL 4650	4				
		JRNL undergraduate elective	4				
		SOCL 4528	4				
		0		17			
Total Hours: 134							

Journalism, Minor

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

Required Courses

JRNL 1150	Interpreting the Day's News	4
JRNL 1101	Journalism 1: Fundamentals of Reporting (A grade of C or higher is required)	4
JRNL 2201	Journalism 2: Intermediate Reporting (A grade of C or higher is required)	4
JRNL 2301	Visual Storytelling in Journalism (A grade of C or higher is required)	4
JRNL 3550	Law of the Press	4
JRNL 4650	Journalism Ethics and Issues	4

GPA Requirement

2.000 GPA required in the minor

Media and Screen Studies

Website (<http://www.northeastern.edu/mscr>)

Dale A. Herbeck, PhD

Professor and Chair

Nathan Blake, PhD

Associate Teaching Professor and Faculty Mentor
Media and Screen Studies Program

114 Holmes Hall
617.373.6599
n.blake@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:

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 (<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. 30)." For template program requirements, visit the myNEU web portal (<http://www.myneu.neu.edu>), click on the "Self-Service" tab, then on "My Degree Audit."

Programs

Bachelor of Arts (BA)

- Media and Screen Studies (p. 123)
- Communication Studies and Media and Screen Studies (p. 125)
- Media and Screen Studies and English (p. 128)
- Media and Screen Studies and Journalism (p. 130)
- Media and Screen Studies and Philosophy (p. 131)
- Media and Screen Studies and Political Science (p. 133)
- Media and Screen Studies and Sociology (p. 134)
- Media and Screen Studies and Theatre (p. 135)

Bachelor of Science (BS)

- Media and Screen Studies and Theatre (p. 136)

Minors

- Cinema Studies (p. 138)
- Film Production (p. 138)
- Media and Screen Studies (p. 138)

Media and Screen Studies, BA

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.

Program Requirements

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

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Media and Screen Studies Requirements

Introductory Courses

A minimum GPA of 2.750 is required:

MSCR 1220	Media, Culture, and Society	4
MSCR 1230	Introduction to Film Production	4
MSCR 1310	Introduction to Digital Media Culture	4
MSCR 2220	Understanding Media and Film	4

Media and Screen Studies Requirements

MSCR 3435	Media Industries	4
MSCR 3437	Media and Identity	4
MSCR 4602	Media and Democracy	4
or MSCR 3423	Twentieth-Century Media	

Media and Screen Studies Theory Course

MSCR 4623	Theories of Media and Culture	4
-----------	-------------------------------	---

Media and Screen Studies Elective Requirement 1

Complete five of the following: 20-21

MSCR 2302	Advertising and Promotional Culture	
MSCR 2305	Digital Media Culture	
MSCR 2325	Global Media	
MSCR 2500	Digital Media Research	
MSCR 2505	Digital Feminisms	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3300	Media Activism	
MSCR 3385	Video: Story and Sequence	
MSCR 3402	Television and Society	
MSCR 3422	Media Audiences	
MSCR 3423	Twentieth-Century Media	
MSCR 3426	Popular Music as Media Form	
MSCR 3428	Television Studies	
MSCR 3438	Celebrity Culture	
MSCR 3500	Documentary Storytelling	
CINE 2160 and CINE 2161	Narrative Filmmaking and Video Software Tools	
CINE 2336	American Film and Culture	
CINE 2350	History of Film	

CINE 2394	Modern Film and Global Culture
CINE 3446	Topics in Documentary Production
CINE 3389	Screenwriting
CINE 3392	Gender and Film
ARTD 3480	Video: Sound and Image
ARTD 3485	Video Art
ARTH 2212	Survey of the Still and Moving Image
COMM 2450	Sound Production for Digital Media
COMM 3550	Television Field Production
COMM 3650	Television Studio Production

Media and Screen Studies Elective Requirement 2

Complete two of the following: 8

MSCR 4206	Age, Media, and Representation
MSCR 4208	TV History
MSCR 4610	The Networked Self
MSCR 4622	Special Topics in Media and Screen Studies
MSCR 4685	Interactive Documentary
MSCR 4970	Junior/Senior Honors Project 1
MSCR 4971	Junior/Senior Honors Project 2
MSCR 4991	Research
MSCR 4992	Directed Study
MSCR 4993	Independent Study
MSCR 4994	Internship
MSCR 4996	Experiential Education Directed Study
CINE 3500	Film Theory
CINE 3920	Topics in Film Studies
CINE 4500	Modernism/Modernity and Film
CINE 4560	Directing the Short Fiction Film
ARTD 4582	
ARTD 4682	Video in Context: Video and Social Change
COMM 4650	Digital Editing for TV
COMM 4750	Advanced Digital Editing for TV and Film

Media and Screen Studies Grade Requirement

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

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 1220	4	MSCR 2220	4	Vacation	0	Vacation	0
MSCR 1230	4	MSCR 1310	4				
ENGW 1111	4	MATH 1215	4				
Elective	4	Elective	4				
MSCR 1000	1						
	17		16		0		0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Media and screen studies elective	4 Media and screen studies elective	4 Vacation	0 Co-op	0
MSCR 3435	4 MSCR 3437	4		
Elective	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
	Media and screen studies 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 Media and screen studies elective	4 Media and screen studies elective	4 Co-op	0
	MSCR 4602 or 3423	4 Elective	4	
	Elective	4		
	Elective	4		
	0	16	8	0

Year 5		
Fall	Hours Spring	Hours
Co-op	0 MSCR 4623	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 1220	4 MSCR 2220	4 Vacation	0 Vacation	0
MSCR 1230	4 MSCR 1310	4		
ENGW 1111	4 MATH 1215	4		
Elective	4 Elective	4		
MSCR 1000	1			
	17	16	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Media and screen studies elective	4 Co-op	0 Co-op	0 Media and screen studies elective	4
MSCR 3435	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
Media and screen studies elective	4 Co-op	0 Co-op	0 Media and screen studies elective	4
MSCR 3437	4		Elective	4
Elective	4			
Elective	4			
	16	0	0	8

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	
MSCR 4602 or 3423	4			
Elective	4			
Elective	4			
	16	0	0	0

Year 5		
Fall	Hours Spring	Hours
Media and screen studies elective	4 MSCR 4623	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 Media and Screen 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath 1–8 attributes IC, SI, and ER are met through the major course requirements. In order to graduate, the student must meet EI, ND, IC, FQ, and DD in their electives.

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 2500	Digital Media Research	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3300	Media Activism	
MSCR 3402	Television and Society	
MSCR 3422	Media Audiences	
MSCR 3423	Twentieth-Century Media	
MSCR 3426	Popular Music as Media Form	
MSCR 3428	Television Studies	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
MSCR 3438	Celebrity Culture	
MSCR 3500	Documentary Storytelling	
CINE 2160	Narrative Filmmaking	
CINE 2350	History of Film	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 2394	Modern Film and Global Culture	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
CINE 3900	Film and Psychoanalysis	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Video Art	
ARTH 2212	Survey of the Still and Moving Image	

Advanced Media and Screen Electives

Complete two of the following:		8
MSCR 4206	Age, Media, and Representation	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4610	The Networked Self	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4685	Interactive Documentary	
MSCR 4970	Junior/Senior Honors Project 1	
MSCR 4971	Junior/Senior Honors Project 2	
MSCR 4991	Research	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	
MSCR 4996	Experiential Education Directed Study	
CINE 3389	Screenwriting	
CINE 4500	Modernism/Modernity and Film	
CINE 4550	Cinema Studies Seminar	
CINE 4560	Directing the Short Fiction Film	
ARTD 4582		
ARTD 4682	Video in Context: Video and Social Change	

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	
COMM 1310	Classical Foundations of Communication	
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 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3331	Argumentation and Debate	

COMM 3414	Great Speakers and Speeches 2, 1930–Present
COMM 3415	Communication Criticism
COMM 3500	Environmental Issues, Communication, and the Media
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 4131	Sex and Interpersonal Communication
COMM 4533	Consultation Skills
COMM 4534	Organizational Communication Training and Development
COMM 4535	Nonverbal Social Interaction
COMM 4602	Contemporary Rhetorical Theory
COMM 4605	Youth and Communication Technology
COMM 4631	Crisis Communication and Image Management
COMM 4901	Seminar in Communications
COMM 4918	Special Topics in Communication Studies

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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

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			
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
Integrative course	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 elective	4	MSCR 4623	4
Integrative course	4	Elective	4
MSCR advanced elective	4	Elective	4
Elective	4	Elective	4

16 16

Total Hours: 129

Media and Screen Studies and English, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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		
Complete one of the following:		
CINE 2350	History of Film	
MSCR 3423	Twentieth-Century Media	
MSCR 4208	TV History	
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete three of the following:		
CINE 2350	History of Film	
CINE 2394	Modern Film and Global Culture	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3900	Film and Psychoanalysis	
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 2500	Digital Media Research	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3300	Media Activism	
MSCR 3402	Television and Society	
MSCR 3422	Media Audiences	
MSCR 3423	Twentieth-Century Media	
MSCR 3426	Popular Music as Media Form	
MSCR 3428	Television Studies	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
MSCR 3438	Celebrity Culture	
MSCR 3500	Documentary Storytelling	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Video Art	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		
CINE 3500	Film Theory	
CINE 4500	Modernism/Modernity and Film	
CINE 4550	Cinema Studies Seminar	
CINE 4560	Directing the Short Fiction Film	
MSCR 4206	Age, Media, and Representation	
MSCR 4208	TV History	

MSCR 4602	Media and Democracy
MSCR 4610	The Networked Self
MSCR 4622	Special Topics in Media and Screen Studies
MSCR 4685	Interactive Documentary
MSCR 4970	Junior/Senior Honors Project 1
MSCR 4971	Junior/Senior Honors Project 2
MSCR 4991	Research
MSCR 4992	Directed Study
MSCR 4993	Independent Study
MSCR 4996	Experiential Education Directed Study
MSCR 4685	Interactive Documentary
ARTD 4582	
ARTD 4682	Video in Context: Video and Social Change

English Requirements for Combined Majors

Code	Title	Hours
------	-------	-------

English Course-Level Requirement

In addition to the capstone, two of the courses chosen from the lists below must be numbered in the range ENGL 3000–ENGL 4999.

Foundational Courses

ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	

Diversity

This course may also be used to fulfill an additional English requirement below.

Complete one of the following: 4

ENGL 2296	Early African-American Literature
ENGL 2360	Modern African-American Literature
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
ENGL 2450	Postcolonial Literature
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 2760	Writing in Global Contexts
ENGL 3663	The African-American Novel

Pre-Nineteenth-Century Literature

Complete one of the following: 4

ENGL 1600	Introduction to Shakespeare
ENGL 2200	The Bible
ENGL 2210	Medieval British Literature
ENGL 2215	Shakespeare's Comedies
ENGL 2216	Shakespeare's Tragedies
ENGL 2230	Sixteenth-Century British Literature
ENGL 2240	Seventeenth-Century British Literature
ENGL 2250	Eighteenth-Century British Literature
ENGL 2295	Revolution and Revolt in Early American Literature
ENGL 2296	Early African-American Literature

ENGL 3151	Topics in Early Literatures Abroad
ENGL 3607	Chaucer
ENGL 3618	Milton
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
ENGL 4020	Topics in 17th- and 18th-Century Literatures

Nineteenth-Century Literature

Complete one of the following: 4

ENGL 2260	Romantic Poetry
ENGL 2270	Victorian Literature
ENGL 2280	Nineteenth-Century British Fiction
ENGL 2330	The American Renaissance
ENGL 2340	American Realism
ENGL 3619	Emerson and Thoreau
ENGL 3720	Nineteenth-Century Major Figure
ENGL 4040	Topics in 19th-Century Literatures

Literature of the Twentieth and Twenty-First Centuries

Complete one of the following: 4

ENGL 2290	Twentieth-Century British Literature
ENGL 2291	Major Twentieth-Century British Novelists
ENGL 2355	Modern American Literature
ENGL 2360	Modern African-American Literature
ENGL 2410	Contemporary American Literature
ENGL 2440	The Modern Bestseller
ENGL 2600	Irish Literary Culture Abroad
ENGL/JWSS 2610	Contemporary Israeli Literature and Art Abroad
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure
ENGL 4060	Topics in 20th- and 21st-Century Literatures

Theories and Methods

Complete one of the following: 4

ENGL 1160	Introduction to Rhetoric
ENGL 1410	Introduction to Writing Studies
ENGL 2830	Literary Theory
ENGL 3325	Rhetoric of Law
ENGL 3340	Technologies of Text
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 4100	Topics in Literary Criticism
ENGL 4110	Topics in Rhetoric and Writing Studies
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 Course		
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 1501	British Literature 1800 to Present	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text Abroad	
ENGL 3488	Film and Text	
ENGL 3572	Fantasy	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 4070	Topics in Genre	
ENGL 4684	Topics in Postcolonial Literature	
ENGL 4688	Topics in Comparative Textual Studies	
Writing		
Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2770	Writing to Heal	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 2710	Style and Editing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 3375	Writing Boston	
ENGL 3379	Nonfiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	
Capstone		
ENGL 4710 or ENGL 4720	Capstone Seminar Capstone Project	4

Integrative Requirement

Code	Title	Hours
Integrative Courses		
CINE 3500	Film Theory	4
ENGL 1450 or ENGL 3340	Reading and Writing in the Digital Age Technologies of Text	4

Media and Screen Studies Grade Requirement

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

Media and Screen Studies and Journalism, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 five of the following:		20
CINE 2350	History of Film	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 2394	Modern Film and Global Culture	
CINE 3446	Topics in Documentary Production	
CINE 3900	Film and Psychoanalysis	
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 2500	Digital Media Research
MSCR 2895	Film Analysis
MSCR 3210	Special Topics in Media and Screen Studies
MSCR 3300	Media Activism
MSCR 3402	Television and Society
MSCR 3422	Media Audiences
MSCR 3423	Twentieth-Century Media
MSCR 3426	Popular Music as Media Form
MSCR 3428	Television Studies
MSCR 3435	Media Industries
MSCR 3437	Media and Identity
MSCR 3438	Celebrity Culture
MSCR 3500	Documentary Storytelling
ARTD 3480	Video: Sound and Image
ARTD 3485	Video Art
ARTH 2212	Survey of the Still and Moving Image

Advanced Media and Screen Electives

Complete two of the following: 8

CINE 3500	Film Theory
CINE 4500	Modernism/Modernity and Film
CINE 4550	Cinema Studies Seminar
CINE 4560	Directing the Short Fiction Film
MSCR 4206	Age, Media, and Representation
MSCR 4208	TV History
MSCR 4602	Media and Democracy
MSCR 4610	The Networked Self
MSCR 4622	Special Topics in Media and Screen Studies
MSCR 4685	Interactive Documentary
MSCR 4970	Junior/Senior Honors Project 1
MSCR 4971	Junior/Senior Honors Project 2
MSCR 4991	Research
MSCR 4992	Directed Study
MSCR 4993	Independent Study
MSCR 4996	Experiential Education Directed Study
ARTD 4582	
ARTD 4682	Video in Context: Video and Social Change

Journalism Requirements

Code	Title	Hours
Journalism Foundations		
JRNL 1101	Journalism 1: Fundamentals of Reporting (A grade of C or higher is required)	4
JRNL 1150	Interpreting the Day'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 5307	Video Newswriting	4
JRNL 5314	Video News Production 1	4

Documentary Production

JRNL 5309	Documentary Production	4
-----------	------------------------	---

Ethics and Issues

JRNL 4650	Journalism Ethics and Issues	4
-----------	------------------------------	---

Journalism Elective

Complete one course in the following range: 4

JRNL 2000 to 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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

Media and Screen Studies and Philosophy, BA

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 2305	Digital Media Culture
MSCR 2325	Global Media
MSCR 2500	Digital Media Research
MSCR 2895	Film Analysis
MSCR 3210	Special Topics in Media and Screen Studies
MSCR 3300	Media Activism
MSCR 3402	Television and Society
MSCR 3422	Media Audiences
MSCR 3423	Twentieth-Century Media
MSCR 3426	Popular Music as Media Form
MSCR 3428	Television Studies
MSCR 3435	Media Industries
MSCR 3437	Media and Identity
MSCR 3438	Celebrity Culture
MSCR 3500	Documentary Storytelling
CINE 1200	Exploring the Humanities through Film
CINE 2160	Narrative Filmmaking
CINE 2161	Video Software Tools
CINE 2336	American Film and Culture
CINE 2350	History of Film
CINE 2394	Modern Film and Global Culture
CINE 3389	Screenwriting
CINE 3392	Gender and Film
CINE 3446	Topics in Documentary Production
ARTD 3480	Video: Sound and Image
ARTD 3485	Video Art
ARTH 2212	Survey of the Still and Moving Image

Advanced Media and Screen Electives

Complete two of the following:	8
MSCR 4206	Age, Media, and Representation
MSCR 4208	TV History
MSCR 4602	Media and Democracy
MSCR 4610	The Networked Self
MSCR 4622	Special Topics in Media and Screen Studies
MSCR 4685	Interactive Documentary
MSCR 4970	Junior/Senior Honors Project 1
MSCR 4971	Junior/Senior Honors Project 2
MSCR 4991	Research
MSCR 4992	Directed Study
MSCR 4993	Independent Study
MSCR 4996	Experiential Education Directed Study
CINE 3370	Contemporary Directions in Cinema
CINE 3500	Film Theory
CINE 3920	Topics in Film Studies
CINE 4500	Modernism/Modernity and Film
CINE 4550	Cinema Studies Seminar
CINE 4560	Directing the Short Fiction Film

ARTD 4582

ARTD 4682	Video in Context: Video and Social Change
-----------	-------------------------------------------

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115 or PHIL 1215	Introduction to Logic Symbolic Logic	4
PHIL 2325 or POLS 2325	Ancient Philosophy and Political Thought Ancient Philosophy and Political Thought	4
PHIL 2330	Modern Philosophy	4

Intermediate/Advanced Philosophy Elective

Complete one of the following:	4
PHIL 3435	Moral Philosophy
PHIL 3436	History of Modern Moral Philosophy
PHIL 4500	Theory of Knowledge
PHIL 4505	Metaphysics
PHIL 4535	Philosophy of Mind

Philosophy Topics Electives

Complete one of the following:	4
PHIL 4500	Theory of Knowledge
PHIL 4505	Metaphysics
PHIL 4510	Philosophy of Science
PHIL 4515	Advanced Logic
PHIL 4535	Philosophy of Mind
PHIL 4901	Topics in Philosophy Seminar
PHIL 4902	Great Philosophers Seminar
PHIL 5001	Global Justice
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion

Philosophy Electives

Complete four additional electives from the philosophy department.	16
--------------------------------------------------------------------	----

Integrative Requirement

Code	Title	Hours
CINE 3500 or MSCR 3300	Film Theory Media Activism	4

Media and Screen Studies Grade Requirement

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Major Credit Requirement

Complete 72 semester hours in the major.

Program Requirement

128 total semester hours required

Media and Screen Studies 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 4623	Theories of Media and Culture	4
MSCR 2220	Understanding Media and Film	4
Elective Courses		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 2350	History of Film	
CINE 2394	Modern Film and Global Culture	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
CINE 3900	Film and Psychoanalysis	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2500	Digital Media Research	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3300	Media Activism	
MSCR 3402	Television and Society	
MSCR 3422	Media Audiences	
MSCR 3423	Twentieth-Century Media	
MSCR 3426	Popular Music as Media Form	
MSCR 3428	Television Studies	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	

MSCR 3438	Celebrity Culture	
MSCR 3500	Documentary Storytelling	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Video Art	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Elective Courses		
Complete two of the following:		8
CINE 3500	Film Theory	
CINE 4500	Modernism/Modernity and Film	
CINE 4550	Cinema Studies Seminar	
CINE 4560	Directing the Short Fiction Film	
MSCR 4206	Age, Media, and Representation	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4610	The Networked Self	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4685	Interactive Documentary	
MSCR 4970	Junior/Senior Honors Project 1	
MSCR 4971	Junior/Senior Honors Project 2	
MSCR 4991	Research	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	
MSCR 4996	Experiential Education Directed Study	
ARTD 4582		
ARTD 4682	Video in Context: Video and Social Change	

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 2326	Premodern Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Politics in Media/Art		
Complete two of the following:		8
POLS 2333	Politics and Film	
POLS 2368	Music and Politics	
POLS 2336	Politics and the Arts	
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.).		
• 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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415 or POLS 3418	Ethnic Political Violence Nationalism	4
<i>Electives</i>		
Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
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	

Media and Screen Studies and Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 2500	Digital Media Research	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3300	Media Activism	
MSCR 3402	Television and Society	
MSCR 3422	Media Audiences	
MSCR 3423	Twentieth-Century Media	
MSCR 3426	Popular Music as Media Form	
MSCR 3428	Television Studies	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
MSCR 3438	Celebrity Culture	
MSCR 3500	Documentary Storytelling	
CINE 2160	Narrative Filmmaking	
CINE 2350	History of Film	
CINE 2394	Modern Film and Global Culture	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3900	Film and Psychoanalysis	
CINE 3920	Topics in Film Studies	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Video Art	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8

MSCR 4206	Age, Media, and Representation
MSCR 4208	TV History
MSCR 4602	Media and Democracy
MSCR 4610	The Networked Self
MSCR 4622	Special Topics in Media and Screen Studies
MSCR 4685	Interactive Documentary
MSCR 4970	Junior/Senior Honors Project 1
MSCR 4971	Junior/Senior Honors Project 2
MSCR 4991	Research
MSCR 4992	Directed Study
MSCR 4993	Independent Study
MSCR 4996	Experiential Education Directed Study
CINE 3500	Film Theory
CINE 4500	Modernism/Modernity and Film
CINE 4550	Cinema Studies Seminar
CINE 4560	Directing the Short Fiction Film
ARTD 4582	
ARTD 4682	Video in Context: Video and Social Change

SOCL 4522	Political Ecology and Environmental Justice
SOCL 4580	Special Topics in Sociology
SOCL 4996	Experiential Education Directed Study

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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

Media and Screen Studies and Theatre, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 2350	History of Film	
CINE 2394	Modern Film and Global Culture	
CINE 3389	Screenwriting	

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 1232	American Society	
SOCL 1245	Sociology of Poverty	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1280	The Twenty-First-Century Workplace	
SOCL 1297	Sociology of Popular Culture	
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 3460	Sociology of Latino Society	
SOCL 3465	Globalization and the Evolution of Human Societies	
SOCL 4518	Law and Social Issues	
SOCL 4520	Race, Class, and Gender	

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 2305	Digital Media Culture
MSCR 2325	Global Media
MSCR 2500	Digital Media Research
MSCR 3210	Special Topics in Media and Screen Studies
MSCR 3300	Media Activism
MSCR 3402	Television and Society
MSCR 3422	Media Audiences
MSCR 3423	Twentieth-Century Media
MSCR 3426	Popular Music as Media Form
MSCR 3428	Television Studies
MSCR 3435	Media Industries
MSCR 3437	Media and Identity
MSCR 3438	Celebrity Culture
MSCR 3500	Documentary Storytelling
MSCR 2895	Film Analysis
ARTD 3480	Video: Sound and Image
ARTD 3485	Video Art
ARTH 2212	Survey of the Still and Moving Image

Advanced Media and Screen Electives

Complete two of the following: 8

CINE 3500	Film Theory
CINE 4500	Modernism/Modernity and Film
CINE 4550	Cinema Studies Seminar
CINE 4560	Directing the Short Fiction Film
MSCR 4206	Age, Media, and Representation
MSCR 4208	TV History
MSCR 4602	Media and Democracy
MSCR 4610	The Networked Self
MSCR 4622	Special Topics in Media and Screen Studies
MSCR 4685	Interactive Documentary
MSCR 4970	Junior/Senior Honors Project 1
MSCR 4971	Junior/Senior Honors Project 2
MSCR 4991	Research
MSCR 4992	Directed Study
MSCR 4993	Independent Study
MSCR 4996	Experiential Education Directed Study
ARTD 4582	
ARTD 4682	Video in Context: Video and Social Change

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

Choose one of the following: 4

THTR 2300	Theatre History: Greek Tragedy to Romanticism
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	Theatre History: Greek Tragedy to Romanticism
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 Cameras
THTR 2346	Viewpoints
THTR 2360	Stage Makeup
THTR 2370	Lighting Design for the Stage
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 Technique

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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

Media and Screen Studies and Theatre, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 2350	History of Film	
CINE 2394	Modern Film and Global Culture	
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 2305	Digital Media Culture	
MSCR 2325	Global Media	
MSCR 2500	Digital Media Research	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3300	Media Activism	
MSCR 3402	Television and Society	
MSCR 3422	Media Audiences	
MSCR 3423	Twentieth-Century Media	
MSCR 3426	Popular Music as Media Form	
MSCR 3428	Television Studies	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
MSCR 3438	Celebrity Culture	
MSCR 3500	Documentary Storytelling	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Video Art	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8

CINE 3500	Film Theory
CINE 4500	Modernism/Modernity and Film
CINE 4550	Cinema Studies Seminar
CINE 4560	Directing the Short Fiction Film
MSCR 4206	Age, Media, and Representation
MSCR 4208	TV History
MSCR 4602	Media and Democracy
MSCR 4610	The Networked Self
MSCR 4622	Special Topics in Media and Screen Studies
MSCR 4685	Interactive Documentary
MSCR 4970	Junior/Senior Honors Project 1
MSCR 4971	Junior/Senior Honors Project 2
MSCR 4991	Research
MSCR 4992	Directed Study
MSCR 4993	Independent Study
MSCR 4996	Experiential Education Directed Study
ARTD 4582	
ARTD 4682	Video in Context: Video and Social Change

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		
Choose one of the following:		4
THTR 2300	Theatre History: Greek Tragedy to Romanticism	
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	Theatre History: Greek Tragedy to Romanticism	
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 Cameras	
THTR 2346	Viewpoints	
THTR 2360	Stage Makeup	
THTR 2370	Lighting Design for the Stage	

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 Technique

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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

Cinema Studies, Minor

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

Required Courses

MSCR 2895	Film Analysis	4
CINE 3500	Film Theory	4

Elective Courses

Complete three of the following:	12
ARTH 2212	Survey of the Still and Moving Image
ARTH 2217	American Animation Film
CINE 2336	American Film and Culture
CINE 2350	History of Film
CINE 2394	Modern Film and Global Culture
CINE 3370	Contemporary Directions in Cinema
CINE 3392	Gender and Film
CINE 4500	Modernism/Modernity and Film
ENGL 3488	Film and Text
ENGL 4080	Topics in Film
HIST 1279	History of the American Film Industry
HIST 2386	History of Soviet Cinema
MUSC 1113	Film Music

GPA Requirement

2.000 GPA required in the minor

Film Production, Minor

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

Required Course

MSCR 1230	Introduction to Film Production	4
-----------	---------------------------------	---

Electives

Complete four of the following:	16
ARTD 3480	Video: Sound and Image
ARTD 3485	Video Art
ARTD 4582	
ARTD 4682	Video in Context: Video and Social Change
CINE 3389	Screenwriting
CINE 3446	Topics in Documentary Production
CINE 3851	Film Festivals: Exhibition and Distribution
CINE 4560	Directing the Short Fiction Film
MSCR 2895	Film Analysis
MSCR 3500	Documentary Storytelling
MSCR 4685	Interactive Documentary
THTR 2345	Acting for Cameras

GPA Requirement

2.000 GPA required in the minor

Media and Screen Studies, Minor

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

MSCR 1220	Media, Culture, and Society	4
MSCR 2220	Understanding Media and Film	4

Elective Courses

Complete three of the following:	12
MSCR 2000 to MSCR 5999	
CINE 2350	History of Film
CINE 2394	Modern Film and Global Culture
CINE 3500	Film Theory
CINE 3920	Topics in Film Studies

GPA Requirement

2.000 GPA required in the minor

Music

Website (<http://www.northeastern.edu/camd/music>)

Daniel Strong Godfrey, PhD

Professor and Chair

351 Ryder Hall
617.373.2440
617.373.4129 (fax)

Allen G. Feinstein, Senior Teaching Professor and Head Faculty Mentor,
a.feinstein@northeastern.edu

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 BA in Music, the BS in Music with Concentration in Music Composition and Technology, and the BS 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 discipline together in a collaborative learning environment with other students.

Our signature program is the BA 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 BS in Music with Concentration in Music Composition and Technology, rooted primarily in the Western art music tradition, focuses on composition for acoustic and electronic instruments and for combined and/or interactive live and digital sources, while exploring ways in which the art form continues to challenge and enhance our notion of composition, performance, and music as integral forces in the cultures we encounter.

The BS 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; and broadcast, mobile, and online media technologies.

Through an exchange program with the New England Conservatory, the Department of Music also offers a joint certificate in performance, where students may attend classes and take performance instruction at the Conservatory 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 Greenline Records and other groups, that allow students to actively pursue their passions and aspirations.

Students may double-concentrate in music industry and music composition and technology. While students are encouraged to consider double-majoring in the BA in Music and other disciplines outside music, the BA in Music cannot be combined with the Concentration in Music Industry or the Concentration in Music Composition and Technology.

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 composition and technology
- 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. 30).” For template program requirements, visit the myNEU web portal (<http://www.myneu.neu.edu>), click on the “Self-Service” tab, then on “My Degree Audit.”

NEC/NU Joint Certificate Programs in Music Performance

The School of Continuing Education at the New England Conservatory (NEC) and the Department of Music at Northeastern University (NU) jointly offer a General Certificate of Merit in Music Performance (24 credits) and a Professional Studies Certificate in Music Performance (48 credits). These programs are geared toward NU undergraduate and graduate students who are interested in improving their abilities to perform on an instrument or voice in the classical or jazz styles.

The certificate in music performance is *in addition to* the student's NU undergraduate or graduate degree—it is an entirely separate and distinct credential. Credits for courses toward the music performance certificate are accumulated and billed separately from credits toward NU undergraduate or graduate degree programs and are not eligible for financial aid. However, NU courses being taken toward a major, a minor, or as purely elective credits in undergraduate degree programs may also be applied toward the performance certificate.

Courses are offered at NEC (predominantly related to music performance) and at NU (predominantly related to music history and music theory). NEC courses are scheduled during evenings and weekends.

Programs

Bachelor of Arts (BA)

- Music (p. 140)

Bachelor of Science (BS)

- Music with Concentration in Music Composition and Technology (p. 142)
- Music with Concentration in Music Industry (p. 144)
- Computer Science and Music with Concentration in Music Composition and Technology (p. 147)
- Music and Communication Studies with Concentration in Music Industry (p. 149)
- Physics and Music with a Concentration in Music Composition and Technology (p. 150)

Minor

- Music (p. 151)
- Ethnomusicology (p. 151)
- Music Composition (p. 152)
- Music Industry (p. 152)
- Music Performance (p. 152)
- Music Recording (p. 153)
- Musical Theatre (p. 154) (offered by the Department of Theatre)
- Songwriting (p. 154)

Certificate

- NEC/NU Joint Certificate Program—General Certificate of Merit in Music Performance (p. 154)
- NEC/NU Joint Certificate Program—Professional Studies Certificate in Music Performance (p. 155)

Music, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath 1-8 attribute IC is met through the major course requirements. Students must satisfy EI, FQ, AD, DD, SI, ND and ER through electives.

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Introduction to College

MUSC 1000 Music at Northeastern 1

Music Theory and Musicianship

MUSC 1201 Music Theory 1 4

MUSC 1202 Music Theory 2 4

Music in Context

Choose one from each category below. At least three choices must be 2000-level or above. Two must be writing intensive. Courses may not double-count across the five areas.

Introductory Class

MUSC 1001 Music in Everyday Life (Music in Everyday Life) 4

Traditional

Complete one of the following: 4

MUSC 1105 Music of the USA

MUSC 1106 Women in Music

MUSC 1108 Music and Poetry

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 2107 Introduction to Opera

MUSC 2308 Principles of Music Literature

MUSC 3470 War and Music

MUSC 3550 Historical Traditions: Special Topics

Ethnomusicology

Complete one of the following: 4

MUSC 1103 Music as a Social Expression

MUSC 1104 Survey of African-American Music

MUSC 1127 Introduction to World Music

MUSC 1128 Music of Africa

MUSC 1129 Music of the Middle East

MUSC 1131 Music of Latin America and the Caribbean

MUSC 1132 Music of the Jewish People

MUSC 1143 Music in Culture

MUSC 2101 Black Popular Music

MUSC 2130 Music of Asia

MUSC 2308 Principles of Music Literature

MUSC 2313 Historical Traditions: World

MUSC 3550 Historical Traditions: Special Topics

Contemporary

Complete one of the following: 4

MUSC 1106 Women in Music

MUSC 1110 Music in Popular Culture

MUSC 1117 George Gershwin

MUSC 1126 New Directions in Music

MUSC 1135 Coltrane

MUSC 1141 Wired for Sound

MUSC 2101 Black Popular Music

MUSC 2308 Principles of Music Literature

MUSC 2316 Historical Traditions: History of the Music Industry

MUSC 3560 Historical Traditions: Music since 1900

MUSI 3401 Hip Hop in the Music Industry

MUST 2315 History of Electronic Music

Creative

Complete one of the following 4SH courses or choose four 1SH 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 Songwriting 1	
MUSC 3337 Writing about Music	
MUSC 2150 Making a Musical: Analysis, Craft, and Creation (Making a Musical: Analysis, Craft, and Creation)	
<i>Ensembles:</i>	
MUSC 1904 Chorus	
MUSC 1905 Band	
MUSC 1906 Orchestra	
MUSC 1907 Wind Ensemble	
MUSC 1911 Jazz Ensemble	
MUSC 1912 Rock Ensemble	
MUSC 1913 Blues/Rock Ensemble	
MUSC 1914 Create Your Own Music	
MUSC 1915 Chamber Ensemble	
MUSC 1916 Contemporary Music Ensemble	
MUSC 1917 Jazz Choir and Combo	
MUSC 1918 World Music Ensemble	
MUSC 1919 Fusion Ensemble	
MUSC 1920 Pep Band	
MUSC 1921 World Fusion Ensemble	

Music Electives

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 43 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 Four Years, No Co-op

Year 1			
Fall	Hours	Spring	Hours
MUSC 1001 (Music in Everyday Life)	4	MUSC 1202	4
MUSC 1201	4	Music in Context Course	4
ENGW 1111	4	Music Elective	4
Elective	4	Elective	4
MUSC 1000	1		
		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
Elective	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 (Music In Everyday Life)	4	MUSC 1202	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	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	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						
Elective	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 Composition and 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath 1-8 attributes EI and IC are met through the major course requirements. Students must satisfy FQ, AD, DD, SI, ND and ER through electives.

General Music Requirements

Introduction to College

MUSC 1000	Music at Northeastern	1
-----------	-----------------------	---

Music Theory and Musicianship

MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUSC 2303	Tonal Form	4
MUSC 2304	Music Theory 4	4
MUSC 3541	Music Analysis Seminar	4

Music in Context

A grade of C or higher is required in Music in Context courses.

Introductory Class

MUSC 1001	Music in Everyday Life (Music In Everyday Life)	4
-----------	-------------------------------------------------	---

Traditional

MUSC 2312	Historical Traditions: Classical	4
-----------	----------------------------------	---

Ethnomusicology

Complete one of the following: 4

MUSC 1103	Music as a Social Expression	
MUSC 1104	Survey of African-American Music	
MUSC 1128	Music of Africa	
MUSC 1129	Music of the Middle East	
MUSC 1131	Music of Latin America and the Caribbean	
MUSC 1132	Music of the Jewish People	
MUSC 1143	Music in Culture	
MUSC 2101	Black Popular Music	
MUSC 2130	Music of Asia	
MUSC 2308	Principles of Music Literature	
MUSC 2313	Historical Traditions: World	
MUSC 3550	Historical Traditions: Special Topics	

Contemporary

MUSC 3560	Historical Traditions: Music since 1900	
-----------	-----------------------------------------	--

Composition

MUST 1301	Introduction to Composition	4
MUSC 1250	Instrumentation and Orchestration	4
MUSC 2420	Music Composition Seminar 1	4

Composition Lessons

Complete the following three times: 3

MUSC 1903	Composition Lessons	
-----------	---------------------	--

Ensemble

Complete two music ensembles: 2-5

MUSC 1904	Chorus	
MUSC 1905	Band	
MUSC 1906	Orchestra	
MUSC 1907	Wind Ensemble	
MUSC 1911	Jazz Ensemble	
MUSC 1912	Rock Ensemble	
MUSC 1913	Blues/Rock Ensemble	
MUSC 1914	Create Your Own Music	
MUSC 1915	Chamber Ensemble	
MUSC 1916	Contemporary Music Ensemble	
MUSC 1917	Jazz Choir and Combo	
MUSC 1918	World Music Ensemble	
MUSC 1919	Fusion Ensemble	
MUSC 1920	Pep Band	
MUSC 1921	World Fusion Ensemble	

Music Technology Requirements

MUST 1220	Introduction to Music Technology	4
MUST 2101	(Pending Approval: Music/Audio Computing)	4
MUST 3421	Digital Audio Processing	4

Music Electives

Complete two of the following: 8

MUSC 5101	(Composing With Image and Sound)	
MUST 3101	(Pending Approval: MIDI Orchestration)	

MUST 3422	Music Composition Seminar 2
MUST 3540	Special Topics in Music Technology
MUST 4520	Interactive Real-Time Performance
MUST 4610	Composition for Electronic Instruments

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

Total Hours: 134

Capstone

MUST 4611	Music Technology Capstone/Senior Recital	4
-----------	------------------------------------------	---

Music Composition and Technology Credit Requirement

Complete 77 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 1001 (Music in Everyday Life)	4	MUSC 1202	4	Vacation	Vacation
MUSC 1201	4	MUST 1301	4		
MUST 1220	4	MUST 3421	4		
ENGW 1111	4	Elective	4		
MUSC 1000	1	Music Ensemble	1		
17		17		0	0

Year 2					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
MUSC 2303	4	MUSC 1250	4	Vacation	Vacation
MUSC 2420	4	MUSC 2304	4		
MUST 2101 (Music Audio Computing)	4	MUSC 2312	4		
Elective	4	Elective	4		
Music Ensemble	1	MUSC 1903	1		
17		17		0	0

Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
MUSC 3541	4	Ethnomusicology elective	4	Vacation	Vacation
MUSC 3560	4	Elective	4		
Music Tech Elective	4	Elective	4		
ENGW 3314	4	Elective	4		
MUSC 1903	1	MUSC 1903	1		
17		17		0	0

Year 4			
Fall	Hours Spring	Hours	
Music Tech Elective	4	MUST 4611	4

Sample Four Years, One Co-op in Spring/Summer 1

Year 1					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
MUSC 1001 (Music in Everyday Life)	4	MUSC 1202	4	Vacation	Vacation
MUSC 1201	4	MUST 1301	4		
MUST 1220	4	MUST 3421	4		
ENGW 1111	4	Elective	4		
MUSC 1000	1	Music ensemble	1		
17		17		0	0

Year 2						
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours		
MUSC 2303	4	MUSC 1250	4	Vacation	Elective	4
MUSC 2420	4	MUSC 2304	4		Elective	4
Elective	4	MUSC 2312	4			
MUST 2101	4	Elective	4			
Music ensemble	1	MUSC 1903	1			
17		17		0	8	

Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
MUSC 3541	4	Co-op	Co-op	Elective	4
MUSC 3560	4			Elective	4
Music Tech Elective	4				
ENGW 3314	4				
MUSC 1903	1				
EEAM 2000	1				
18		0		0	8

Year 4			
Fall	Hours Spring	Hours	
Ethnomusicology elective	4	MUST 4611	4
Music Tech Elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
MUSC 1903	1		
17		16	

Total Hours: 135

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

Year 1				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MUSC 1001 (Music in Everyday Life)	4 MUSC 1202	4 Elective	4 Vacation	
MUSC 1201	4 MUSC 1250	4 Elective	4	
MUST 1220	4 MUST 1301	4		
ENGW 1111	4 MUST 3421	4		
MUSC 1000	1 Music ensemble	1		
	17	17	8	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MUST 2101 (Music/Audio Computing)	4 Co-op	Co-op	Elective	4
MUSC 2303	4 Elective	4	Elective	4
MUSC 3560	4		MUSC 1903	1
MUSC 2420	4			
Music ensemble	1			
EEAM 2000	1			
	18	4	0	9

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MUSC 2312	4 ENGW 3314	4 Co-op 2	Elective	4
Elective	4 Co-op 2		Elective	4
Music Tech Elective	4			
MUSC 1903	1			
MUSC 3541	4			
	17	4	0	8

Year 4		
Fall	Hours Spring	Hours
Ethnomusicology elective	4 MUSC 2304	4
Music Tech Elective	4 MUST 4611	4
Elective	4 Elective	4
Elective	4 Elective	4
MUSC 1903	1	
	17	16

Total Hours: 135

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

Year 1				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MUSC 1001 (Music in Everyday Life)	4 MUSC 1202	4 Vacation	Vacation	
MUSC 1201	4 MUST 1301	4		

MUST 1220	4 MUST 3421	4		
ENGW 1111	4 Elective	4		
MUSC 1000	1 Music ensemble	1		
	17	17	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MUSC 2303	4 MUSC 1250	4 Vacation	Vacation	
MUSC 3560	4 MUSC 2312	4		
MUSC 2420	4 MUSC 2304	4		
MUST 2101 (Music/Audio Computing)	4 Elective	4		
Music ensemble	1 MUSC 1903	1		
	17	17	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MUSC 3541	4 Co-op 1	Co-op 1	Vacation	
Elective	4			
Elective	4			
Elective	4			
MUSC 1903	1			
EEAM 2000	1			
	18	0	0	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Ethnomusicology elective	4 Co-op 2	Co-op 2	Vacation	
Music Tech Elective	4			
Elective	4			
MUSC 1903	1			
ENGW 3314	4			
	17	0	0	0

Year 5		
Fall	Hours Spring	Hours
Music Tech Elective	4 MUST 4611	4
Elective	4 Elective	4
Elective	4 Elective	4
Elective	4 Elective	4
	16	16

Total Hours: 135

Music with Concentration in Music Industry, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath 1–8 attributes AD and SI are met through the major course requirements. In order to graduate, the student must meet EI, FQ, IC, DD, ND, and ER in their electives.

Music Industry Requirements

Introduction to College

MUSC 1000	Music at Northeastern	1
-----------	-----------------------	---

Music Theory Requirement

MUSC 1201	Music Theory 1	4
MUSI 1204	Analyzing Popular Genres	4

Music in Context

Choose one from each category below; at least three must be 2000 level or above; at least two must be writing-intensive. Courses may not double-count across the five areas. 20

Introductory Course

MUSC 1001	Music in Everyday Life (Music In Everyday Life)
-----------	-------------------------------------------------

Traditional (choose one):

MUSC 1105	Music of the USA
MUSC 1106	Women in Music
MUSC 1108	Music and Poetry
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 2107	Introduction to Opera
MUSC 2308	Principles of Music Literature
MUSC 3470	War and Music
MUSC 3550	Historical Traditions: Special Topics

Ethnomusicology (choose one):

MUSC 1103	Music as a Social Expression
MUSC 1104	Survey of African-American Music
MUSC 1127	Introduction to World Music
MUSC 1128	Music of Africa
MUSC 1129	Music of the Middle East
MUSC 1131	Music of Latin America and the Caribbean
MUSC 1132	Music of the Jewish People
MUSC 1143	Music in Culture
MUSC 2101	Black Popular Music
MUSC 2130	Music of Asia
MUSC 2308	Principles of Music Literature
MUSC 2313	Historical Traditions: World
MUSC 3550	Historical Traditions: Special Topics

Contemporary (choose one):

MUSC 1106	Women in Music
MUSC 1110	Music in Popular Culture
MUSC 1117	George Gershwin

MUSC 1126	New Directions in Music
MUSC 1135	Coltrane
MUSC 1141	Wired for Sound
MUSC 1201	Music Theory 1
MUSC 2308	Principles of Music Literature
MUSC 2316	Historical Traditions: History of the Music Industry
MUSC 3560	Historical Traditions: Music since 1900
MUSI 3401	Hip Hop in the Music Industry
MUST 2315	History of Electronic Music

Creative (choose one):

MUST 1220	Introduction to Music Technology
MUST 1301	Introduction to Composition
MUSC 2208	Jazz Improvisation
MUSC 2209	Conducting
MUSC 2210	Songwriting 1
MUSC 3337	Writing about Music

Music Ensemble

Complete two music ensembles: 2-5

MUSC 1904	Chorus
MUSC 1905	Band
MUSC 1906	Orchestra
MUSC 1907	Wind Ensemble
MUSC 1911	Jazz Ensemble
MUSC 1912	Rock Ensemble
MUSC 1913	Blues/Rock Ensemble
MUSC 1914	Create Your Own Music
MUSC 1915	Chamber Ensemble
MUSC 1916	Contemporary Music Ensemble
MUSC 1917	Jazz Choir and Combo
MUSC 1918	World Music Ensemble
MUSC 1919	Fusion Ensemble
MUSC 1920	Pep Band
MUSC 1921	World Fusion Ensemble

Music Industry

MUSI 1230	Introduction to Music Industry	4
-----------	--------------------------------	---

Music Industry Electives

Complete five of the following: 20

MUSC 2210	Songwriting 1
MUSI 2231	Music Licensing for Media
MUSI 2232	Music Recording 1
MUSI 2233	Music in the Online and Mobile Environment
MUSI 2330	Performing Arts Administration
MUSI 2332	Music Publishing and Royalties
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
MUSC 3337	Writing about Music
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
MUST 1220	Introduction to Music Technology
MUST 3421	Digital Audio Processing

Business Course Requirements

Economics

ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

Accounting

ACCT 1209	Financial Accounting and Reporting	4
-----------	------------------------------------	---

Business Electives

Complete two business courses from the following subject areas: 8

ACCT, BUSN, ENTR, FINA, HRMG, INTB, MGMT, ORGB, MGSC, MISM, MKTG, SCHM, or STRT

Experiential Learning for Music Industry

MUSI 4601	Seminar in Music Industry	4
-----------	---------------------------	---

Music Industry Major Credit Requirement

Complete 78 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	
MUSC 1001 (Music In Everyday Life)	4 MUSC 1201	4 Vacation	0 Vacation	0	
MUSC 1119	4 ENGW 1111	4			
MUSI 1230	4 ECON 1115	4			
MATH 1215	4 Music Industry elective	4			
MUSC 1000	1 Music ensemble	1			
Music ensemble	1				
	18	17	0	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	
ECON 1116	4 ACCT 1209	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	
	Business 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 Elective	4 Co-op 3	0
	Music in Context course	4 Business elective	4	
	Elective	4		
	Elective	4		
	0	16	8	0

Year 5		
Fall	Hours Spring	Hours
Co-op 3	0 MUSI 4601	4
	Music Industry elective	4
	Elective	4
	Elective	4
	0	16

Total Hours: 132

Sample Five Years, Three Co-ops in Spring/Summer 1

Year 1				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MUSC 1001 (Music In Everyday Life)	4 MUSC 1201	4 Vacation	0 Vacation	0
MUSC 1119	4 ECON 1115	4		
MUSI 1230	4 ENGW 1111	4		
MATH 1215	4 Music Industry elective	4		
MUSC 1000	1 Music ensemble	1		
Music ensemble	1			
	18	17	0	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
ECON 1116	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 Elective	4
ACCT 1209	4		Business elective	4

Music in Context Course	4			
Elective	4			
	16	0	0	8

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			
Elective	4			
Elective	4			
	16	0	0	0

Year 5

Fall	Hours Spring	Hours
Music in Context course	4 MUSI 4601	4
Music Industry elective	4 Music Industry elective	4
Business elective	4 Elective	4
Elective	4 Elective	4
	16	16

Total Hours: 132

Computer Science and Music with Concentration in Music Composition and 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
------	-------	-------

Computer Science Overview

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

Computer Science Fundamental Courses

A grade of C- or higher is required in each course:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4
IS 4300	Human Computer Interaction (Integrative)	4

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

Computer Science Elective Courses

Complete two courses in the following ranges:	8
CS 2600 to CS 7999 but not CS 5010	
IS 2000 to IS 7999 but not IS 4900	

Music Composition and Technology Courses

Code	Title	Hours
------	-------	-------

Music Theory

MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4

Music Composition

MUST 1301	Introduction to Composition	4
MUST 2315	History of Electronic Music	4
MUST 3422	Music Composition Seminar 2	4
or MUSC 2420	Music Composition Seminar 1	

Music Technology

MUST 1220	Introduction to Music Technology	4
MUSC 3560	Historical Traditions: Music since 1900	4
MUST 4520	Interactive Real-Time Performance	4

Electronic Composition and Performance

Complete the following two courses in order:

MUST 4610	Composition for Electronic Instruments	4
MUST 4611	Music Technology Capstone/Senior Recital	4

Music Composition and Technology Integrative Course

MUST 3421	Digital Audio Processing	4
Composition Lessons		
Complete the following course four times:		4
MUSC 1903	Composition Lessons	
Music Elective Requirements		
Complete two courses in the following ranges:		8
MUST 2320 to MUST 4993		
MUSC 2000 to MUSC 4993		

Foundations of Psychology

Code	Title	Hours
PSYC 1101	Foundations of Psychology	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		
PHIL 1145	Technology and Human Values	4
SOCL 1280	The Twenty-First-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	

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 four general electives.		16

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
- Integrating Knowledge and Skills Through Experience
- 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

137 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
CS 1800 and CS 1801	4	CS 2510 and CS 2511	5	Vacation	0
CS 2500 and CS 2501	5	CS 2800 and CS 2801	5		
CS 1200	1	MUSC 1202	4		
ENGW 1111	4	MUST 1301	4		
MUSC 1201	4				
		18		0	
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 3500	4	CS 4800	4	Vacation	0
MUST 1220	4	CS 3200	4		
PSYC 1101	4	MUST 3421	4		
MUSC 1903	1	MUSC 1903	1		
Elective	4	Elective	4		
		17		0	
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
IS 4300	4	Co-op	0	Co-op	0
MUSC 3560	4				
MUSC 1903	1				
MUST 3422 or MUSC 2420	4				
ENGW 3302	4				
CS 1210	1				
		18		0	
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
MUST 2315	4	Co-op	0	Co-op	0
MUST 4520	4				
MUSC undergraduate elective	4				
CS undergraduate elective	4				
		16		0	
Year 5					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 4500	4	CS undergraduate elective	4		
MUST 4610	4	CS 4000	1		
MUSC 1903	1	MUST 4611	4		

MUSC undergraduate elective	4 Elective	4
SOCL 4528	4 Elective	4
		17
		17

Total Hours: 138

Music and Communication Studies with Concentration in Music Industry, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Music Industry Requirements

Code	Title	Hours
Introduction to College		
MUSC 1000	Music at Northeastern	1
Music Theory Requirement		
MUSC 1201	Music Theory 1	4
Introductory Music Industry		
MUSI 1230	Introduction to Music Industry	4
Historical Traditions		
Complete two of the following:		8
MUSC 2311	Historical Traditions: America	
MUSC 2312	Historical Traditions: Classical	
MUSC 2313	Historical Traditions: World	
MUSC 2316	Historical Traditions: History of the Music Industry	
MUSC 3550	Historical Traditions: Special Topics	
MUSC 3560	Historical Traditions: Music since 1900	
Music Industry Electives		
Complete two of the following:		8
MUSC 2210	Songwriting 1	
MUSI 2231	Music Licensing for Media	
MUSI 2232	Music Recording 1	
MUSI 2233	Music in the Online and Mobile Environment	
MUSI 2330	Performing Arts Administration	
MUSI 2332	Music Publishing and Royalties	
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
MUSC 3337	Writing about Music
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
MUST 1220	Introduction to Music Technology
MUST 3421	Digital Audio Processing

Business Electives

Complete two courses in the following subject areas: 8

ACCT, BUSN, ENTR, FINA, HRMG, INTB, MGMT, ORGB, MGSC, MISM, MKTG, SCHM, and STRT

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 1310	Classical Foundations of Communication	
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 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3331	Argumentation and Debate	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3500	Environmental Issues, Communication, and the Media	
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 4131	Sex and Interpersonal Communication	

COMM 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4535	Nonverbal Social Interaction	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
COMM 4901	Seminar in Communications	
COMM 4918	Special Topics in Communication Studies	
Communication Studies Electives		
Complete three COMM courses.		12

Integrative Requirement

Complete one of the integrative options below. If a communication studies course is taken, an additional music course, numbered 2000 or higher, is required.

Code	Title	Hours
Music Option		
MUSI 4601	Seminar in Music Industry	4
Communication Studies Option		
Complete two of the following courses. One communication studies course is required:		8
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

Physics and Music with Concentration in Music Composition and 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. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

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 Historical Traditions		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUST 1301	Introduction to Composition	4
MUST 2315	History of Electronic Music	4
MUSC 3560	Historical Traditions: Music since 1900	4
Music Technology		
MUST 1220	Introduction to Music Technology	4
MUST 3421	Digital Audio Processing	4
MUST 4520	Interactive Real-Time Performance	4
Music Ensemble		
Complete two music ensembles:		2
MUSC 1904	Chorus	
MUSC 1905	Band	
MUSC 1906	Orchestra	
MUSC 1907	Wind Ensemble	
MUSC 1911	Jazz Ensemble	
MUSC 1912	Rock Ensemble	
MUSC 1913	Blues/Rock Ensemble	
MUSC 1914	Create Your Own Music	
MUSC 1915	Chamber Ensemble	
MUSC 1916	Contemporary Music Ensemble	
MUSC 1917	Jazz Choir and Combo	
MUSC 1918	World Music Ensemble	
MUSC 1919	Fusion Ensemble	
MUSC 1920	Pep Band	
MUSC 1921	World Fusion Ensemble	
Music Technology Capstone/Senior Recital		
MUST 4611	Music Technology Capstone/Senior Recital	4
Music Electives Requirements		
Complete three additional courses in the following ranges:		12
MUSC 2000 to MUSC 4993		
MUST 2320 to MUST 4993		

Physics/Music Integrative Requirements

Code	Title	Hours
Integrative Course Requirements		
MUST 1220	Introduction to Music Technology	4
MUST 3421	Digital Audio Processing	4

Physics and Music Combined-Major Credit Requirement

Complete 108 semester hours in the major.

Program Requirement

128 total semester hours required

Music, Minor

Complete all courses listed below unless otherwise indicated.

Music Theory and Musicianship

A C or better is required in each course.

Complete the following course:

MUSC 1001	Music in Everyday Life (Music in Everyday Life)	4
-----------	-------------------------------------------------	---

Complete one of the following courses: 4

MUSC 1201	Music Theory 1	
MUSC 1202	Music Theory 2	
MUSC 1119	Fundamentals of Western Music Theory	
MUSI 1204	Analyzing Popular Genres	

Music Literature Electives

A C or better is required in each course.

Complete two courses from the following list of electives. 8
Four semesters of lessons or ensembles or a combination thereof may be substituted for one elective:

Electives

MUSC 1103	Music as a Social Expression	
MUSC 1104	Survey of African-American Music	
MUSC 1105	Music of the USA	
MUSC 1106	Women in Music	
MUSC 1108	Music and Poetry	
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 1117	George Gershwin	
MUSC 1118	Music Therapy 1	
MUSC 1122	Music of the Baroque Era	
MUSC 1123	Music of the Classical Era	
MUSC 1124	Music of the Romantic Era	
MUSC 1125	Twentieth-Century Music	
MUSC 1127	Introduction to World Music	
MUSC 1128	Music of Africa	
MUSC 1129	Music of the Middle East	

MUSC 1131	Music of Latin America and the Caribbean	
MUSC 1132	Music of the Jewish People	
MUSC 1135	Coltrane	
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 3550	Historical Traditions: Special Topics	
MUSC 3560	Historical Traditions: Music since 1900	

Ensembles

All ensembles are 1 credit:

MUSC 1904	Chorus	
MUSC 1905	Band	
MUSC 1906	Orchestra	
MUSC 1907	Wind Ensemble	
MUSC 1911	Jazz Ensemble	
MUSC 1912	Rock Ensemble	
MUSC 1913	Blues/Rock Ensemble	
MUSC 1914	Create Your Own Music	
MUSC 1915	Chamber Ensemble	
MUSC 1916	Contemporary Music Ensemble	
MUSC 1917	Jazz Choir and Combo	
MUSC 1918	World Music Ensemble	
MUSC 1919	Fusion Ensemble	
MUSC 1920	Pep Band	
MUSC 1921	World Fusion Ensemble	

Lessons

All lessons are 1 credit:

MUSC 1901	Music Lessons 1	
MUSC 1902	Music Lessons 2	
MUSC 1903	Composition Lessons	

GPA Requirement

2.000 GPA required in the minor

Ethnomusicology, Minor

Complete all courses listed below unless otherwise indicated.

Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Required Courses

MUSC 1103	Music as a Social Expression	4
or MUSC 2313	Historical Traditions: World	
or MUSC 1143	Music in Culture	
MUSC 4641	Seminar in Ethnomusicology: Issues in Fieldwork and Methodology	4

Ethnomusicology Electives

Complete two of the following: 8

MUSC 1104	Survey of African-American Music	
AFAM 1104	The African-American Experience through Music	

MUSC 1112	Jazz
MUSC 1128	Music of Africa
AFRS 1128	The African Experience through Music
MUSC 1129	Music of the Middle East
MUSC 1131	Music of Latin America and the Caribbean
MUSC 1132	Music of the Jewish People
MUSC 2101	Black Popular Music

GPA Requirement

2.000 GPA required in the minor

Music Composition, Minor

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

Required Courses

MUSC 1001	Music in Everyday Life	4
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUSC 1301	Introduction to Composition	4
MUSC 1903	Composition Lessons	1

Elective

Complete one of the following: 4

MUSC 1250	Instrumentation and Orchestration
MUSC 1220	Introduction to Music Technology

GPA Requirement

2.000 GPA required in the minor

Music Industry, Minor

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

Music Theory

MUSC 1119	Fundamentals of Western Music Theory	4
-----------	--------------------------------------	---

Music Appreciation

Complete one of the following: 4

MUSC 1101	Introduction to Music
MUSC 1103	Music as a Social Expression
MUSC 1104	Survey of African-American Music
MUSC 1105	Music of the USA
MUSC 1106	Women in Music
MUSC 1108	Music and Poetry
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 1118	Music Therapy 1
MUSC 1122	Music of the Baroque Era

MUSC 1123	Music of the Classical Era
MUSC 1124	Music of the Romantic Era
MUSC 1125	Twentieth-Century Music
MUSC 1126	New Directions in Music
MUSC 1127	Introduction to World Music
MUSC 1128	Music of Africa
MUSC 1129	Music of the Middle East
MUSC 1131	Music of Latin America and the Caribbean
MUSC 1132	Music of the Jewish People
MUSC 1136	What's Playing at Symphony?
MUSC 1139	Popular Music, Sexuality, and the New Global Order
MUSC 1140	Global Pop Music
MUSC 2130	Music of Asia
MUSC 2308	Principles of Music Literature

Music Industry

MUSI 1230	Introduction to Music Industry	4
-----------	--------------------------------	---

Music Industry Electives

Complete three of the following: 12

MUSC 2210	Songwriting 1
MUSC 3337	Writing about Music
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 2330	Performing Arts Administration
MUSI 2332	Music Publishing and Royalties
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 3342	Music Supervision 2
MUSI 3401	Hip Hop in the Music Industry
MUSI 4530	Music Entrepreneurship
MUSC 1220	Introduction to Music Technology
MUSC 3421	Digital Audio Processing

GPA Requirement

2.000 GPA required in the minor

Music Performance, Minor

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 Theory and Musicianship

A grade of C or higher is required in music theory courses:

MUSC 1001	Music in Everyday Life (Music in Everyday Life)	4
MUSC 1201	Music Theory 1	4

Music Lessons

Complete four music lesson courses (courses are repeatable): 4

MUSC 1901	Music Lessons 1
MUSC 1902	Music Lessons 2

Music Ensemble

Complete five music ensembles: 5

MUSC 1904	Chorus
MUSC 1905	Band
MUSC 1906	Orchestra
MUSC 1907	Wind Ensemble
MUSC 1911	Jazz Ensemble
MUSC 1912	Rock Ensemble
MUSC 1913	Blues/Rock Ensemble
MUSC 1914	Create Your Own Music
MUSC 1915	Chamber Ensemble
MUSC 1916	Contemporary Music Ensemble
MUSC 1917	Jazz Choir and Combo
MUSC 1918	World Music Ensemble
MUSC 1919	Fusion Ensemble
MUSC 1920	Pep Band
MUSC 1921	World Fusion Ensemble

Music Electives

Complete one of the following: 4

MUSC 1103	Music as a Social Expression
MUSC 1104	Survey of African-American Music
MUSC 1105	Music of the USA
MUSC 1106	Women in Music
MUSC 1108	Music and Poetry
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 1117	George Gershwin
MUSC 1121	Medieval and Renaissance Music
MUSC 1122	Music of the Baroque Era
MUSC 1123	Music of the Classical Era
MUSC 1124	Music of the Romantic Era
MUSC 1125	Twentieth-Century Music
MUSC 1126	New Directions in Music
MUSC 1127	Introduction to World Music
MUSC 1128	Music of Africa

MUSC 1129	Music of the Middle East
MUSC 2130	Music of Asia
MUSC 1131	Music of Latin America and the Caribbean
MUSC 1132	Music of the Jewish People
MUSC 1135	Coltrane
MUSC 1136	What's Playing at Symphony?
MUSC 1139	Popular Music, Sexuality, and the New Global Order
MUSC 1143	Music in Culture
MUSC 1250	Instrumentation and Orchestration
MUSC 2101	Black Popular Music
MUSC 2137	Viennese School 1
MUSC 2138	Viennese School 2
MUSC 2208	Jazz Improvisation
MUSC 2209	Conducting
MUSC 2210	Songwriting 1
MUSC 3337	Writing about Music
MUSC 3470	War and Music
MUSC 3501	Modernizing Tradition in Balinese Performing Arts
MUSC 3540	Special Topics in Music Analysis
MUSC 3541	Music Analysis Seminar

Music Recitals

MUSC 3410	Recital 1	1
MUSC 4622	Recital 2	1

GPA Requirement

2.000 GPA required in the minor

Music Recording, Minor

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

Required Courses

MUSI 2232	Music Recording 1	4
MUSI 2331	Music Recording 2	4
MUSI 3341	Music Recording 3—Mixing and Mastering	4

Recording Elective

Complete one of the following: 4

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

Musical Theatre, Minor

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	4

Electives

Code	Title	Hours
Choose two from the following:		8
THTR 1101	Introduction to Theatre	
THTR 1150	Dance History: Modern to Hip Hop	
MUSC 2107	Introduction to Opera	
MUSC 2210	Songwriting 1	
THTR 2310	History of Musical Theatre	
THTR 2330	Playwriting	
THTR 3570	Musical Theatre Technique	

Making Musical Theatre

Code	Title	Hours
Choose one of the following:		1
MUSC 1901	Music Lessons 1	
THTR 1100	Production Experience 1	

GPA Requirement

2.000 GPA required in the minor

Songwriting, Minor

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

Required Courses

Music Theory

MUSC 1119	Fundamentals of Western Music Theory	4
MUSC 1201	Music Theory 1	4

Songwriting

MUSC 2210	Songwriting 1	4
MUSC 2211	Songwriting 2	4

Production

MUSI 2101	Demo Production for Songwriters	4
-----------	---------------------------------	---

GPA Requirement

2.000 GPA required in the minor

NEC/NU Joint Certificate Program—General Certificate of Merit in Music Performance

Complete all courses listed below unless otherwise indicated.

Also complete any corequisite labs, recitations, clinicals, or tools courses where specified.

Northeastern University Requirements

Complete 11 credits of course work at Northeastern University as indicated below.

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	4
-----------	--------------------------------------	---

Credits for MUSC 1119 do not count toward the certificate.

Music Theory and Musicianship¹

MUSC 1201 and MUSC 1241	Music Theory 1 and Musicianship 1	5
-------------------------	-----------------------------------	---

Music History

Complete four credits from the following: 4

MUSC 1104	Survey of African-American Music	
MUSC 1105	Music of the USA	
MUSC 1111	Rock Music	
MUSC 1112	Jazz	
MUSC 1121	Medieval and Renaissance Music	
MUSC 1122	Music of the Baroque Era	
MUSC 1123	Music of the Classical Era	
MUSC 1124	Music of the Romantic Era	
MUSC 1125	Twentieth-Century 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:

MUSC 3550	Historical Traditions: Special Topics	
-----------	---------------------------------------	--

Ensembles

Complete two music ensembles: 2

MUSC 1904	Chorus	
MUSC 1905	Band	
MUSC 1906	Orchestra	
MUSC 1907	Wind Ensemble	
MUSC 1911	Jazz Ensemble	
MUSC 1912	Rock Ensemble	
MUSC 1913	Blues/Rock Ensemble	
MUSC 1914	Create Your Own Music	
MUSC 1915	Chamber Ensemble	
MUSC 1916	Contemporary Music Ensemble	
MUSC 1917	Jazz Choir and Combo	
MUSC 1918	World Music Ensemble	
MUSC 1919	Fusion Ensemble	
MUSC 1920	Pep Band	
MUSC 1921	World Fusion Ensemble	

¹ Music majors with a concentration in music industry may substitute Music Theory for Music Industry 1 (MUSI 1203) for Music Theory 1 (MUSC 1201) and Analyzing Popular Genres (MUSI 1204) for Musicianship 1 (MUSC 1241).

New England Conservatory Requirements

Complete 13 credits of course work at New England Conservatory School of Continuing Education as indicated below.

Private Studio Instruction

Complete 8 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.

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

Electives

Complete 3 credits from the following: 3

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/Handel Arias for Singers

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 Eighteenth-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

Ensemble

Complete one music ensemble: 1

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

NEC/NU Joint Certificate Program—Professional Studies Certificate in Music Performance

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.

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	4	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
Credits for MUSC 1119 do not count toward the certificate.				
Music Theory and Musicianship ¹				
MUSC 1201 and MUSC 1241	Music Theory 1 and Musicianship 1	5		
MUSC 1202 and MUSC 1242	Music Theory 2 and Musicianship 2	5		
Music History				
Complete four credits from the following:				4
MUSC 1104	Survey of African-American Music		MPNC 1102	Music Instruction (2 credits)
MUSC 1105	Music of the USA		MPNC 1103	Music Instruction (3 credits)
MUSC 1111	Rock Music		MPNC 1104	Music Instruction (4 credits)
MUSC 1112	Jazz		Music Technology	
MUSC 1121	Medieval and Renaissance Music		MPNC 1201	Contemporary Music Production and Technology 1
MUSC 1122	Music of the Baroque Era		Electives	
MUSC 1123	Music of the Classical Era		Complete seven credits from the following:	
MUSC 1124	Music of the Romantic Era		MPNC 1301	Build Your Voice: Art/Skillful Singing
MUSC 1125	Twentieth-Century Music		MPNC 1401	Jazz Ear Training 1
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:			MPNC 1411	Jazz Theory 1
MUSC 3550	Historical Traditions: Special Topics		MPNC 1421	Finale Chart Writing
Ensembles				
Complete six music ensembles:			MPNC 1451	Jazz History 1
MUSC 1904	Chorus	6	MPNC 1501	Introduction to Music-in-Education
MUSC 1905	Band		MPNC 1612	Group Piano Class
MUSC 1906	Orchestra		MPNC 1621	The Art of Musical Sight-Reading
MUSC 1907	Wind Ensemble		MPNC 1622	The Art of Practice and Performance
MUSC 1911	Jazz Ensemble		MPNC 1623	Developing Perfect Pitch 1
MUSC 1912	Rock Ensemble		MPNC 1631	The Accidental Music Teacher: From Musical Artist to Creative Educator
MUSC 1913	Blues/Rock Ensemble		MPNC 1642	Sight-Singing for Singers
MUSC 1914	Create Your Own Music		MPNC 1801	Introduction to Composition 1
MUSC 1915	Chamber Ensemble		MPNC 1802	Contemporary Improvisation: Skill Building
MUSC 1916	Contemporary Music Ensemble		MPNC 1803	Contemporary Improvisation: Music of the World—The African Diaspora
MUSC 1917	Jazz Choir and Combo		MPNC 1901	Art and Soul of Cinema: An Appreciation of Film Music
MUSC 1918	World Music Ensemble		MPNC 1911	Latin American Classical Traditions 1
MUSC 1919	Fusion Ensemble		MPNC 2401	Jazz Ear Training 2
MUSC 1920	Pep Band		MPNC 2411	Jazz Theory 2
MUSC 1921	World Fusion Ensemble		MPNC 2431	Jazz Composition and Analysis
Recital Preparation and Performance				
MUSC 3410	Recital 1	1	MPNC 2451	Jazz History 2
MUSC 4622	Recital 2	1	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

¹ Music majors with a concentration in music industry may substitute Music Theory for Music Industry 1 (MUSI 1203) for Music Theory 1 (MUSC 1201) and Analyzing Popular Genres (MUSI 1204) for Musicianship 1 (MUSC 1241).

New England Conservatory Requirements

Complete 26 credits of course work at New England Conservatory School of Continuing Education as indicated below.

Private Studio Instruction

MPNC 2601	Music Production for Media
MPNC 2612	Piano Pedagogy
MPNC 2623	Developing Perfect Pitch 2
MPNC 2624	Advanced Perfect Pitch
MPNC 2644	Bach/Handel Arias for Singers
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	Eighteenth-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 (<http://www.northeastern.edu/camd/theatre>)

Scott Edmiston, MFA

Professor of the Practice and Chair

180 Ryder Hall

617.373.2244

617.373.4149 (fax)

Antonio Ocampo-Guzman, Associate Professor and Undergraduate Mentor, antonio@northeastern.edu

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 fifty 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 thirty 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 administrators. 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):

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 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. 30)." For template program requirements, visit the myNEU web portal (<http://www.myneu.neu.edu>), click on the "Self-Service" tab, then on "My Degree Audit."

Programs

Bachelor of Arts (BA)

- Theatre (p. 158)
- Media and Screen Studies and Theatre (p. 160)

Bachelor of Science (BS)

- Theatre (p. 161)
- Media and Screen Studies and Theatre (p. 164)
- American Sign Language and Theatre (p. 165)

Minors

- Theatre (p. 166)
- Musical Theatre (p. 167)
- Professional Presentation (p. 167)

Theatre, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI) and Formal and Quantitative Reasoning (FQ) can be met through courses within the major. All other NUpath requirements must be met through electives.

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Theatre Major Requirements

A minimum grade of C is required for all theatre courses.

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 Theatre Career Seminar)	1

Theatre Texts and Context

Complete two of the following: 8

THTR 2300	Theatre History: Greek Tragedy to Romanticism	
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 3450 or THTR 3550.

Students concentrating in Theatre Design & Production should complete THTR 3550 or THTR 3600.

THTR 3450	Acting 3—Playing Shakespeare (Theatre Performance Concentration)
THTR 3550	Directing for the Stage
THTR 3600	

Electives

Complete the following electives or choose one of the concentrations below (p. 158).

Complete four of the following: 16

THTR 1150	Dance History: Modern to Hip Hop
THTR 1215	Activism and Performance
THTR 1220	African-American Theatre
THTR 1260	Movement for the Actor
THTR 2300	Theatre History: Greek Tragedy to Romanticism
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 Cameras
THTR 2346	Viewpoints
THTR 2360	Stage Makeup
THTR 2365	Technical Theatre 2
THTR 2370	Lighting Design for the Stage
THTR 2380	Costume Design
THTR 2400	Scenic Design
THTR 2600	Voice and Speech for the Actor
THTR 3300	
THTR 3450	Acting 3—Playing Shakespeare
THTR 3550	Directing for the Stage
THTR 3570	Musical Theatre Technique

Theatre Major Credit Requirement

Complete 60 semester hours in the major. The Performance and Production Concentrations require 68 semester hours.

Program Requirement

128 total semester hours required

Theatre Performance Concentration

A minimum grade of C is required for all theatre courses in the Performance Concentration.

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 1150	Dance History: Modern to Hip Hop
THTR 1215	Activism and Performance
THTR 2300	Theatre History: Greek Tragedy to Romanticism

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 Cameras
THTR 2346	Viewpoints
THTR 2360	Stage Makeup
THTR 2370	Lighting Design for the Stage
THTR 2380	Costume Design
THTR 2385	Fashion Construction and Pattern Making
THTR 2400	Scenic Design
THTR 3300	
THTR 3450	Acting 3—Playing Shakespeare
THTR 3550	Directing for the Stage
THTR 3570	Musical Theatre Technique

Theatre Production Concentration

A minimum grade of C is required for all theatre courses in the Production Concentration.

Design & Production

Complete four of the following: 16

THTR 1230	The Evolution of Fashion and Costume
THTR 2365	Technical Theatre 2
THTR 2370	Lighting Design for the Stage
THTR 2380	Costume Design
THTR 2385	Fashion Construction and Pattern Making
THTR 2400	Scenic Design

Electives

Complete two of the following: 8

THTR 1150	Dance History: Modern to Hip Hop
THTR 1215	Activism and Performance
THTR 1235	Fashion and Costume Design in Film and Television
THTR 2300	Theatre History: Greek Tragedy to Romanticism
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 Cameras
THTR 2346	Viewpoints
THTR 2360	Stage Makeup
THTR 2370	Lighting Design for the Stage
THTR 2380	Costume Design
THTR 2385	Fashion Construction and Pattern Making
THTR 2400	Scenic Design
THTR 3300	
THTR 3550	Directing for the Stage

THTR 3570	Musical Theatre Technique
-----------	---------------------------

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	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	4	Co-op #1	4	Vacation	0
THTR 2325	4						
THTR 1270	4						
Elective	4						
Elective	4						
		17		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: 132

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	4	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

Media and Screen Studies and Theatre, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 2350	History of Film	
CINE 2394	Modern Film and Global Culture	
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 2305	Digital Media Culture	
MSCR 2325	Global Media	
MSCR 2500	Digital Media Research	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3300	Media Activism	
MSCR 3402	Television and Society	
MSCR 3422	Media Audiences	
MSCR 3423	Twentieth-Century Media	
MSCR 3426	Popular Music as Media Form	
MSCR 3428	Television Studies	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
MSCR 3438	Celebrity Culture	
MSCR 3500	Documentary Storytelling	
MSCR 2895	Film Analysis	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Video Art	

ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
CINE 3500	Film Theory	
CINE 4500	Modernism/Modernity and Film	
CINE 4550	Cinema Studies Seminar	
CINE 4560	Directing the Short Fiction Film	
MSCR 4206	Age, Media, and Representation	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4610	The Networked Self	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4685	Interactive Documentary	
MSCR 4970	Junior/Senior Honors Project 1	
MSCR 4971	Junior/Senior Honors Project 2	
MSCR 4991	Research	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	
MSCR 4996	Experiential Education Directed Study	
ARTD 4582		
ARTD 4682	Video in Context: Video and Social Change	

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		
Choose one of the following:		4
THTR 2300	Theatre History: Greek Tragedy to Romanticism	
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	Theatre History: Greek Tragedy to Romanticism	
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 Cameras	

THTR 2346	Viewpoints	
THTR 2360	Stage Makeup	
THTR 2370	Lighting Design for the Stage	
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 Technique	

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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

Theatre, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

NUpath requirements Creative Expression/Innovation (EI), Interpreting Culture (IC), Societies and Institutions (SI) and Formal and Quantitative Reasoning (FQ) can be met through courses within the major. All other NUpath requirements must be met through electives.

Theatre Major Requirements

A minimum grade of C is required for all theatre courses.

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 Theatre Career Seminar)	1

Theatre Texts and Context

Complete two of the following:		8
THTR 2300	Theatre History: Greek Tragedy to Romanticism	
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 3450 or THTR 3550.

Students concentrating in Theatre Design & Production should complete THTR 3550 or THTR 3600.

THTR 3450	Acting 3—Playing Shakespeare (Theatre Performance Concentration)	
THTR 3550	Directing for the Stage	
THTR 3600		

Electives

Complete the following electives or choose one of the concentrations below (p. 162).

Complete four of the following: 16

THTR 1150	Dance History: Modern to Hip Hop	
THTR 1215	Activism and Performance	
THTR 1220	African-American Theatre	
THTR 1260	Movement for the Actor	
THTR 2300	Theatre History: Greek Tragedy to Romanticism	
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 Cameras	
THTR 2346	Viewpoints	
THTR 2360	Stage Makeup	
THTR 2365	Technical Theatre 2	
THTR 2370	Lighting Design for the Stage	
THTR 2380	Costume Design	
THTR 2400	Scenic Design	
THTR 2600	Voice and Speech for the Actor	
THTR 3300		
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Technique	

Theatre Major Credit Requirement

Complete 60 semester hours in the major. The Performance and Production Concentrations require 68 semester hours.

Program Requirement

128 total semester hours required

Theatre Performance Concentration

A minimum grade of C is required for all theatre courses in the Performance Concentration.

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 1150	Dance History: Modern to Hip Hop	
THTR 1215	Activism and Performance	
THTR 2300	Theatre History: Greek Tragedy to Romanticism	
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 Cameras	
THTR 2346	Viewpoints	
THTR 2360	Stage Makeup	
THTR 2370	Lighting Design for the Stage	
THTR 2380	Costume Design	
THTR 2385	Fashion Construction and Pattern Making	
THTR 2400	Scenic Design	
THTR 3300		
THTR 3450	Acting 3—Playing Shakespeare	
THTR 3550	Directing for the Stage	
THTR 3570	Musical Theatre Technique	

Theatre Production Concentration

A minimum grade of C is required for all theatre courses in the Production Concentration.

Design & Production

Complete four of the following: 16

THTR 1230	The Evolution of Fashion and Costume	
THTR 2365	Technical Theatre 2	
THTR 2370	Lighting Design for the Stage	
THTR 2380	Costume Design	
THTR 2385	Fashion Construction and Pattern Making	
THTR 2400	Scenic Design	

Electives

Complete two of the following: 8

THTR 1150	Dance History: Modern to Hip Hop	
THTR 1215	Activism and Performance	

THTR 1235	Fashion and Costume Design in Film and Television
THTR 2300	Theatre History: Greek Tragedy to Romanticism
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 Cameras
THTR 2346	Viewpoints
THTR 2360	Stage Makeup
THTR 2370	Lighting Design for the Stage
THTR 2380	Costume Design
THTR 2385	Fashion Construction and Pattern Making
THTR 2400	Scenic Design
THTR 3300	
THTR 3550	Directing for the Stage
THTR 3570	Musical Theatre Technique

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			
	17	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		
Upper-Division 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
Upper-Division Elective	4 Upper-Division Elective	4
Elective	4 Elective	4
Elective	4	
	17	16

Total Hours: 132

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			
Upper-Division 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		
Upper-Division 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
Upper-Division Elective	4 Elective	4
Elective	4 Elective	4
Elective	4	
	17	16

Total Hours: 133

Media and Screen Studies and Theatre, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 2350	History of Film	
CINE 2394	Modern Film and Global Culture	

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 2305	Digital Media Culture
MSCR 2325	Global Media
MSCR 2500	Digital Media Research
MSCR 2895	Film Analysis
MSCR 3210	Special Topics in Media and Screen Studies
MSCR 3300	Media Activism
MSCR 3402	Television and Society
MSCR 3422	Media Audiences
MSCR 3423	Twentieth-Century Media
MSCR 3426	Popular Music as Media Form
MSCR 3428	Television Studies
MSCR 3435	Media Industries
MSCR 3437	Media and Identity
MSCR 3438	Celebrity Culture
MSCR 3500	Documentary Storytelling
ARTD 3480	Video: Sound and Image
ARTD 3485	Video Art
ARTH 2212	Survey of the Still and Moving Image

Advanced Media and Screen Electives

Complete two of the following:		8
CINE 3500	Film Theory	
CINE 4500	Modernism/Modernity and Film	
CINE 4550	Cinema Studies Seminar	
CINE 4560	Directing the Short Fiction Film	
MSCR 4206	Age, Media, and Representation	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4610	The Networked Self	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4685	Interactive Documentary	
MSCR 4970	Junior/Senior Honors Project 1	
MSCR 4971	Junior/Senior Honors Project 2	
MSCR 4991	Research	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	
MSCR 4996	Experiential Education Directed Study	
ARTD 4582		
ARTD 4682	Video in Context: Video and Social Change	

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

Choose one of the following: 4

THTR 2300	Theatre History: Greek Tragedy to Romanticism	
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	Theatre History: Greek Tragedy to Romanticism	
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 Cameras	
THTR 2346	Viewpoints	
THTR 2360	Stage Makeup	
THTR 2370	Lighting Design for the Stage	
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 Technique	

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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

American Sign Language and Theatre, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

American Sign Language and Theatre Combined-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
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

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	Theatre History: Greek Tragedy to Romanticism	
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	Theatre History: Greek Tragedy to Romanticism	
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 Cameras	
THTR 2346	Viewpoints	
THTR 2360	Stage Makeup	
THTR 2365	Technical Theatre 2	
THTR 2370	Lighting Design for the Stage	
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 Technique	

Integrative Course Work

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

Sample 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		
THTR 1100	1			
	17	16	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
INTP 3500	2 INTP 3550	4 Vacation	0 Vacation	0
AMSL 3101	4 Theatre texts and context	4		
THTR 2325	4 Elective	4		
Theatre intermediate or advanced technique	4 Elective	4		
THTR 2000	1			
	15	16	0	0

Year 4		
Fall	Hours Spring	Hours
ENGW 3315	4 INTP 4940	4
THTR 4702	4 Theatre intermediate or advanced technique	4
Elective	4 Elective	4
Elective	4 Elective	4
	16	16

Total Hours: 128

Theatre, Minor

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

THTR 1101	Introduction to Theatre	4
-----------	-------------------------	---

Foundational Courses

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

Choose two courses from the following options: (Pre-requisites may apply).

THTR 1125	Improvisation for Entrepreneurs	
THTR 1127	Improvisation for Entrepreneurs—Abroad	
THTR 1130	Introduction to Acting	
THTR 1131	Technical Theatre 1	
THTR 1135	Introduction to Acting Abroad	
THTR 1150	Dance History: Modern to Hip Hop	
THTR 1160	The Professional Voice	
THTR 1165	The Professional Voice Abroad	
THTR 1215	Activism and Performance	
THTR 1220	African-American Theatre	
THTR 1270	Introduction to Theatrical Design	

THTR 2300	Theatre History: Greek Tragedy to Romanticism
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 Cameras
THTR 2346	Viewpoints
THTR 2360	Stage Makeup
THTR 2365	Technical Theatre 2
THTR 2370	Lighting Design for the Stage
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 Technique

THTR 1100 Production Experience 1

GPA Requirement

2.000 GPA required in the minor

Professional Presentation, Minor

The professional presentation minor is an interdisciplinary minor. Please see the Communication Studies (p. 108) page for requirements.

Making Theatre

Participate in a theatre department production.

THTR 1100	Production Experience 1	1
-----------	-------------------------	---

NOTE: If cast in a substantial role, THTR 3000 Rehearsal and Production (4 SH) can be substituted for THTR 1100

GPA Requirement

2.000 GPA required in the minor

Musical Theatre, Minor

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	4

Electives

Code	Title	Hours
Choose two from the following:		8
THTR 1101	Introduction to Theatre	
THTR 1150	Dance History: Modern to Hip Hop	
MUSC 2107	Introduction to Opera	
MUSC 2210	Songwriting 1	
THTR 2310	History of Musical Theatre	
THTR 2330	Playwriting	
THTR 3570	Musical Theatre Technique	

Making Musical Theatre

Code	Title	Hours
Choose one of the following:		1
MUSC 1901	Music Lessons 1	

D'Amore-McKim School of Business

Website (<http://www.damore-mckim.neu.edu>)

Hugh G. Courtney, PhD, Dean

Peggy L. Fletcher, MBA, Associate Dean of Undergraduate Programs and Associate Dean of Finance and Administration

Kate E. Klepper, MBA, Associate Dean of Graduate Programs

Mario J. Maletta, PhD, Senior Associate Dean of Academic Programs

Barbara Scott, MBA, Associate Dean of Marketing, Communications, and Corporate Relations

Emery A. Trahan, PhD, Senior Associate Dean of Faculty and Research

Undergraduate Office

250 Dodge Hall

617.373.3270

617.373.4804 (fax)

Cynthia Elcock, *Academic Assistant*, c.elcock@northeastern.edu

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

For each degree program students must choose one of the concentrations listed below:

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Information Management
- 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.

ADDITIONAL INFORMATION FOR INTERNATIONAL BUSINESS

Globalization of the world economy, international trade, and the growth of multinational firms have created an increasing demand for managers who are equipped to address the complexities of international business. The D'Amore-McKim School of Business offers the Bachelor of Science in International Business (BSIB) to meet the needs of highly motivated students who are interested in careers in international business whether abroad or in the United States.

The primary purpose of the BSIB is to give students the opportunity to experience the challenges of an expatriate assignment that any manager may encounter during his or her career. The program requires that students complete an *expatriate year* of overseas study and work. To offer the BSIB program, the D'Amore-McKim School of Business partners with a group of business schools around the world that have a similar philosophy of preparing globally minded managers and encourages classroom study and work placements.

To earn the BSIB, students must complete both the academic and work components of the program. Coursework may be completed in either four or five years. The work component (co-op) consists of a minimum of two and potentially up to three placements. Students must complete a six month co-op in the host country where they studied. The overseas co-op takes place either immediately after or in conjunction with the students' overseas study semester, which is determined by the host country.

Many of our partners in Europe and Central/South America offer the opportunity for a dual degree. The dual degree program allows students to spend two years at the partner school and earn a bachelor's degree from Northeastern and the equivalent degree from the partner institution.

The D'Amore-McKim School of Business has designed a PlusOne program which combines the BSIB degree with a Master of Science in International Management (MSIM). This option allows eligible students to overlap their last semester of their senior year with the first semester of a one year Masters program and gives the opportunity to earn the Undergraduate and Masters degrees in the timeframe of five years of study.

Students, in conjunction with their Academic Advisor, 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. In addition to this required functional concentration, students can choose to complete one or more additional concentrations.

BSIB students can choose from two *expatriate year* destination options. The first requires proficiency in a foreign language; the second requires the completion of a globally focused general minor. Both options require

immersion in the local culture to sharpen their language proficiency, cross-cultural capabilities, and business skills.

1. Students who opt for an *expatriate year* destination in Brazil, China, France, Germany, Italy, Japan, Mexico or Spain must achieve proficiency in the host country language. Proficiency is determined by standardized examination.

Students who opt for an *expatriate year* in China and Japan take their coursework in English. However, the program requires a strong language preparation that is essential to function in daily life and to broaden the students' options for securing a cooperative education work assignment.

2. Students who opt for the *expatriate year* in England or Ireland must complete a globally focused general minor to earn the BSIB degree. The following is a list of qualifying minors.

General Minor Options:

- African Studies
- Cultural Anthropology
- East Asian Studies
- Latino/a, Latin American and Caribbean Studies
- Global Social Entrepreneurship
- Emerging Markets
- International Affairs
- International Security Studies
- Jewish Studies
- Middle East Studies

Language Minor Options:

- Arabic
- Chinese
- French
- Italian
- Japanese
- Portuguese
- Russian
- Spanish

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 degree.

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.

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).

Programs

Bachelor of Science in Business Administration (BSBA)

- Bachelor of Science in Business Administration with Concentration in Accounting (p. 170)

Bachelor of Science in International Business (BSIB)

- Bachelor of Science in International Business with Concentration in Accounting (p. 173)

Bachelor of Science in Business Administration with Concentration in Accounting, BSBA

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Core Requirements

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	
Statistics		
MGSC 2301	Business Statistics	4
Macroeconomics and Microeconomics		
ECON 1115	Principles of Macroeconomics	4

ECON 1116	Principles of Microeconomics	4
-----------	------------------------------	---

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	Strategy in Action	4
or STRT 4516	External Case Competition Challenge	
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 170).

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

Required 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	

Second Business Concentration (Optional)

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

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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	

ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4

Electives

Complete three of the following: 12

ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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 BUSINESS/INTERDISCIPLINARY

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

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		

Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	

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

Five Years, Three Co-ops in Summer 2/Fall

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with 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 NU Path EI requirement.

³ One concentration course will fulfill WI.

⁴ Electives may be used to complete a secondary business concentration.

Bachelor of Science in International Business with Concentration in Accounting, BSIB

Program Requirements

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

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

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

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 main D'Amore McKim School of Business Undergraduate page (p. 169).

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 174). Certain concentrations require additional prerequisites. Please consult your academic advisor to ensure you have met these requirements.

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

Required Concentration

Students in the Bachelor of Science in International Business with a concentration in Accounting are required to take the following prerequisite:

ACCT 2302	Managerial Accounting in a Global Context
-----------	-------------------------------------------

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	

Second Business Concentration (Optional)

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

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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4

Electives

Complete three of the following: 12

ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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 BUSINESS/INTERDISCIPLINARY

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

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following: 12		
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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

Five-Year Program: Year 4 Abroad, 2 Co-ops (MSIM)

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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	Vacation or study abroad / Dialogue	0	Vacation or study abroad / Dialogue	0
MGSC 2301	4	FINA 2202	4				
ACCT 1202	4	ENGW 1111	4				
ECON 1116 or ENTR 2301	4	Elective	4				
BUSN 1102	1						
		17		16		0	0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENTR 2301 or ECON 1116	4	INTB 2202	4	Elective	4	Co-op	0
Concentration course	4	Concentration course	4	Concentration course	4		
Elective	4	Elective	4				
Elective	4	Elective	4				
BUSN 1100	1	BUSN 1103	1				
		17		17		8	0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ORGB 3201	4	INTB 3202	4	Vacation	0
		Concentration course	4	Elective	4		
		ENGW 3304	4				
		Elective	4				
		0		16		8	0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Expatriate year		Expatriate year		Expatriate year		Expatriate year	
Elective	4	Co-op abroad		Co-op abroad		Co-op abroad	
Elective	4						

Elective	4			
Elective	4			
	16	0	0	0
Year 5				
Fall	Hours Spring	Hours		
INTB 4202	4 Final graduate-level classes for MIM			
Elective	4			
Elective	4			
Elective	4			
	16	0		

Total Hours: 131

Five-Year Program: Year 3 Abroad with 3 Co-ops (Dual Degree)

Note: Plan of study will vary based upon student’s academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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
BUSN 1102	1 FINA 2202	4 Concentrator course	4	
MGSC 2301	4 ENGW 1111	4		
ACCT 1202	4 BUSN 1103	1		
ECON 1116 or ENTR 2301	4 ECON 1116 or ENTR 2301	4		
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 Co-op	0
	Concentrator course	4 Concentrator 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	Vacation	0
Concentrator course	4			
Elective	4			
Elective	4			
Elective	4			
	16	0	0	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Concentration course	4 Co-op	0 Co-op	0 Vacation	0
ORGB 3201	4			
ENGW 3304	4			
Elective	4			
	16	0	0	0

Year 5		
Fall	Hours Spring	Hours
INTB 4202	4 Elective ¹	4
Elective	4 Elective	4
Elective	4 Elective	4
Elective	4 Elective	4
	16	16

Total Hours: 131

¹ If a student completes summer classes and no vacation, these electives will not be necessary.

Entrepreneurship and Innovation

Website (<http://www.damore-mckim.neu.edu>)

214 Hayden Hall
617.373.3241
617.373.8628 (fax)
Marc H. Meyer, Robert J. Shillman Professor of Entrepreneurship, Matthews Distinguished Professor, and Group Coordinator, ma.meyer@northeastern.edu

Entrepreneurship and innovation offers a dynamic set of courses for students considering career paths as either startup entrepreneurs or corporate innovators. In addition to the general concentration, we also offer three specific tracks of study: technology entrepreneurship, family business entrepreneurship, and social entrepreneurship. We also offer exciting co-op jobs in a broad range of early stage firms as well as more established companies, including family businesses. Teaching you are professors who have also been entrepreneurs and innovators in their own careers and who are now accomplished researchers. This makes our courses both cutting edge and “real world.”

There are also specialized field study programs abroad called Dialogues of Civilization in places such as South Africa, India, Italy, and South Korea. By taking one of these dialogues, a student has an opportunity to earn the right to use the global designation on his or her resumé,

i.e., global technology entrepreneurship, global family business entrepreneurship, or global social entrepreneurship.

The Northeastern Center for Entrepreneurship Education (NUCEE) is a university-wide program that helps undergraduate and graduate students, as well as alumni, start new companies. This is a system of experiential entrepreneurship education: Classroom education and co-ops are the first step. The next step is incubating new ventures right on campus in the student-led organization, IDEA. With our support, many of these ventures launch as funded and self-sustaining companies in the field. The Entrepreneurship and Innovation Group (<http://www.northeastern.edu/entrepreneurship>) is the platform for many of these activities.

In addition to NUCEE, the Entrepreneurship and Innovation Group provides leadership with the Center for Family Business and the globally recognized Social Enterprise Institute (SEI). The Center for Family Business runs local programs that offer members advice and guidance on the many different aspects of running a family business, while SEI provides microfinance and small-business consulting field trips abroad.

Whether you wish to concentrate in entrepreneurship and innovation or use it as a dual concentration (such as with finance or marketing), these courses are important components of business education in today's economy. Even if you don't wish to start your own company, *entrepreneurial thinking* is a valued attribute of every executive in companies of all sizes and in all industries.

Programs

Bachelor of Science in Business Administration (BSBA)

- Bachelor of Science in Business Administration with Concentration in Entrepreneurship and Innovation (p. 178)

Bachelor of Science in International Business (BSIB)

- Bachelor of Science in International Business with Concentration in Entrepreneurship and Innovation (p. 182)

Bachelor of Science in Business Administration with Concentration in Entrepreneurship and Innovation, BSBA

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Core Requirements

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	
Statistics		
MGSC 2301	Business Statistics	4
Macroeconomics and Microeconomics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
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	Strategy in Action	4
	or STRT 4516	External Case Competition Challenge
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 179).

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

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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	

ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

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 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 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 4518	Risk Management and Insurance	
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 BUSINESS/INTERDISCIPLINARY

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

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4

Electives		
Complete three of the following:		12

MGMT 3302	Negotiating in Business
MGMT 3330	Developing Leaders for Global Sustainability
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches
MGMT 3420	Managing Human Capital
MGMT 3435	Social Networks and Organizations
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
MGMT 4603	Leadership Seminar
ENTR 2215	Understanding Family Enterprise

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 3305	Information Resource Management
MISM 3404	Data Communications
MISM 3406	Introduction to Web Design, Practices, and Standards
MISM 3515	Data Mining for Business
MISM 4512	Special Topics in Information Technology Management
ACCT 3403	Accounting Information Systems
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4

Electives		
Complete two of the following:		8

MKTG 2301	Marketing and Society
MKTG 3501	Marketing Analytics
MKTG 4310	Retailing
MKTG 4420	Sales Management
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
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

Five Years, Three Co-ops in Summer 2/Fall

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with 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)			

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 NU Path EI requirement.

³ One concentration course will fulfill WI.

⁴ Electives may be used to complete a secondary business concentration.

Bachelor of Science in International Business with Conc. in Entrepreneurship and Innovation, BSIB

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

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

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

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 main D'Amore McKim School of Business Undergraduate page (p. 169).

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 182). Certain concentrations require additional prerequisites. Please consult your academic advisor to ensure you have met these requirements.

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

Required Concentration

CONCENTRATION IN ENTREPRENEURSHIP AND INNOVATION

Code	Title	Hours
ENTR 1201	The Entrepreneurial Universe	
ENTR 3308	Business Economic History of South Africa	
ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

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 FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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 BUSINESS/INTERDISCIPLINARY

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

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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
MGMT 4603	Leadership Seminar
ENTR 2215	Understanding Family Enterprise

SCHM 3320	Demand Planning and Forecasting
SCHM 3330	Sustainability and Supply Chain Management
SCHM 4401	Advanced Problems in Supply Chain Management

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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	

Plan of Study

Five-Year Program: Year 4 Abroad, 2 Co-ops (MSIM)

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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	Vacation or study abroad / Dialogue	0	Vacation or study abroad / Dialogue	0
MGSC 2301	4	FINA 2202	4				
ACCT 1202	4	ENGW 1111	4				
ECON 1116 or ENTR 2301	4	Elective	4				
BUSN 1102	1						
		17		16		0	

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENTR 2301 or ECON 1116	4	INTB 2202	4	Elective	4	Co-op	0
Concentration course	4	Concentration course	4	Concentration course	4		
Elective	4	Elective	4				
Elective	4	Elective	4				
BUSN 1100	1	BUSN 1103	1				
		17		17		8	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ORGB 3201	4	INTB 3202	4	Vacation	0
		Concentration course	4	Elective	4		
		ENGW 3304	4				
		Elective	4				
		0		16		8	

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Expatriate year	Expatriate year	Expatriate year	Expatriate year	
Elective	4 Co-op abroad	Co-op abroad	Co-op abroad	
Elective	4			
Elective	4			
Elective	4			
	16	0	0	0

Year 5		
Fall	Hours Spring	Hours
INTB 4202	4 Final graduate-level classes for MIM	
Elective	4	
Elective	4	
Elective	4	
	16	0

Total Hours: 131

Five-Year Program: Year 3 Abroad with 3 Co-ops (Dual Degree)

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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
BUSN 1102	1 FINA 2202	4 Concentrator course	4	
MGSC 2301	4 ENGW 1111	4		
ACCT 1202	4 BUSN 1103	1		
ECON 1116 or ENTR 2301	4 ECON 1116 or ENTR 2301	4		
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 Co-op	0
	Concentrator course	4 Concentrator 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	Vacation	0
Concentration course	4			
Elective	4			
Elective	4			
Elective	4			
	16	0	0	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Concentration course	4 Co-op	0 Co-op	0 Vacation	0
ORGB 3201	4			
ENGW 3304	4			
Elective	4			
	16	0	0	0

Year 5		
Fall	Hours Spring	Hours
INTB 4202	4 Elective ¹	4
Elective	4 Elective	4
Elective	4 Elective	4
Elective	4 Elective	4
	16	16

Total Hours: 131

¹ If a student completes summer classes and no vacation, these electives will not be necessary.

Finance

Website (<http://www.damore-mckim.neu.edu>)

413 Hayden Hall
617.373.3616
617.373.8798 (fax)
Jeffery A. Born, Professor and Group Coordinator,
j.born@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 how to apply this analysis to financial decision making.

Students may specialize in one or more of the following areas: corporate finance, investment management and analysis, 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.

Programs

Bachelor of Science in Business Administration (BSBA)

- Bachelor of Science in Business Administration with Concentration in Finance, BSBA (p. 186)

Bachelor of Science in International Business (BSIB)

- Bachelor of Science in International Business with Concentration in Finance, BSIB (p. 189)

Dual Degree

- Bachelor of Science in Business Administration with Concentration in Finance, BSBA/Master of Science in Finance, MSF (p. 193)

Bachelor of Science in Business Administration with Concentration in Finance, BSBA

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

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 Core Requirements

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	
Statistics		
MGSC 2301	Business Statistics	4
Macroeconomics and Microeconomics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
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	Strategy in Action	4
or STRT 4516	External Case Competition Challenge	
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 186).

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

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 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 4518	Risk Management and Insurance
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

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	
Electives		
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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

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 MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	

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
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

Five Years, Three Co-ops in Summer 2/Fall

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with 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 NU Path EI requirement.

³ One concentration course will fulfill WI.

⁴ Electives may be used to complete a secondary business concentration.

Bachelor of Science in International Business with Concentration in Finance, BSIB

Program Requirements

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

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

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

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 main D'Amore McKim School of Business Undergraduate page (p. 169).

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 190). Certain concentrations require additional prerequisites. Please consult your academic advisor to ensure you have met these requirements.

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

Required Concentration

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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	

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	

ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

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 MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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

Five-Year Program: Year 4 Abroad, 2 Co-ops (MSIM)

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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	Vacation or study abroad / Dialogue	0	Vacation or study abroad / Dialogue	0
MGSC 2301	4	FINA 2202	4				
ACCT 1202	4	ENGW 1111	4				
ECON 1116 or ENTR 2301	4	Elective	4				
BUSN 1102	1						
		17		16		0	0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENTR 2301 or ECON 1116	4	INTB 2202	4	Elective	4	Co-op	0
Concentration course	4	Concentration course	4	Concentration course	4		
Elective	4	Elective	4				
Elective	4	Elective	4				
BUSN 1100	1	BUSN 1103	1				
		17		17		8	0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ORGB 3201	4	INTB 3202	4	Vacation	0
		Concentration course	4	Elective	4		
		ENGW 3304	4				
		Elective	4				
		0		16		8	0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Expatriate year		Expatriate year		Expatriate year		Expatriate year	
Elective	4	Co-op abroad	4	Co-op abroad	4	Co-op abroad	4
Elective	4						
Elective	4						
Elective	4						
		16		0		0	0

Year 5

Fall	Hours	Spring	Hours
INTB 4202	4	Final graduate-level classes for MIM	
Elective	4		
Elective	4		
Elective	4		
	16		0

Total Hours: 131

Five-Year Program: Year 3 Abroad with 3 Co-ops (Dual Degree)

Note: Plan of study will vary based upon student’s academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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
BUSN 1102	1	FINA 2202	4	Concentration course	4		
MGSC 2301	4	ENGW 1111	4				
ACCT 1202	4	BUSN 1103	1				
ECON 1116 or ENTR 2301	4	ECON 1116 or ENTR 2301	4				
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	Co-op	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		Vacation	0
Concentration course	4						

Elective	4			
Elective	4			
Elective	4			
	16		0	0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Concentration course	4	Co-op	0	Co-op	0	Vacation	0
ORGB 3201	4						
ENGW 3304	4						
Elective	4						
	16		0		0		0

Year 5

Fall	Hours	Spring	Hours
INTB 4202	4	Elective ¹	4
Elective	4	Elective	4
Elective	4	Elective	4
Elective	4	Elective	4
	16		16

Total Hours: 131

¹ If a student completes summer classes and no vacation, these electives will not be necessary.

Bachelor of Science in Business Administration with Concentration in Finance, BSBA/Master of Science in Finance, MSF

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Core Requirements

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	

Statistics

MGSC 2301	Business Statistics	4
-----------	---------------------	---

Macroeconomics and Microeconomics

ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

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	Strategy in Action	4
or STRT 4516	External Case Competition Challenge	
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 194).

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

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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	

BSBA/MSF Admissions Requirements

FINA 3301	Corporate Finance (a grade of B or higher is required)	4
FINA 3303	Investments (a grade of B or higher is required)	4

Students are required to have an undergraduate GPA of 3.250.

Graduate Course Work to Be Taken As an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Required Courses

FINA 6202		
FINA 6204	International Finance Management	3

Upper-Level Finance Courses

Complete two courses from the range FINA 6000 to FINA 6999 but not FINA 6205, FINA 6209, or FINA 6219.	8
--------------------------------------------------------------------------------------------------------	---

Graduate Open Elective

Complete one graduate open elective.	4
--------------------------------------	---

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	

ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

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 MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4

Electives

Complete two of the following:	8
--------------------------------	---

MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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	

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 people, projects, and programs requires a considerable range of knowledge and skills. Effective managers must understand the business, be interpersonally competent, behave ethically, and diagnose and deal with human and organizational dynamics. The aim of the management concentration is both to increase knowledge of management so that students have a strong substantive “core” and to increase management skills. This includes studying the principles of motivation, leadership, negotiation, conflict resolution, project management, managing teams, organizational change, and their impact on business results. In addition, students have the opportunity to improve their managing skills.

The curriculum offers courses in a range of relevant management topics. Some of the courses, including the required core course, are primarily skills oriented; they teach “how to.” Others are more content oriented; they teach “about management.”

Programs**Bachelor of Science in Business Administration (BSBA)**

- Bachelor of Science in Business Administration with Concentration in Management (p. 196)

Bachelor of Science in International Business (BSIB)

- Bachelor of Science in International Business with Concentration in Management (p. 200)

Bachelor of Science in Business Administration with Concentration in Management, BSBA**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Core Requirements

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	

Statistics

MGSC 2301	Business Statistics	4
-----------	---------------------	---

Macroeconomics and Microeconomics

ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

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	Strategy in Action	4
or STRT 4516	External Case Competition Challenge	

International Business/Social Responsibility

INTB 1203	International Business and Global Social Responsibility	4
-----------	---------------------------------------------------------	---

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 197).

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

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12

MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital
ENTR 3212	Innovation for Social Change
ENTR 3217	Global Family Business Leadership
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World
ENTR 3220	International Entrepreneurship and Innovation
ENTR 3305	Business Modeling for Entrepreneurs
ENTR 3306	Global Entrepreneurship
ENTR 3316	Microfinance and Economic Development in Latin America
ENTR 3320	Base of Pyramid Innovation
ENTR 3326	Sustainability in the Latin American Business Environment
ENTR 3330	Lean Design and Development for Entrepreneurs
ENTR 3336	Resource Management and Renewable Energy in Iceland
ENTR 3348	Family Business: A Global Perspective
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises
ENTR 3403	Managing Operations in a Technology-Based Startup Firm
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets
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

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following: 12		
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance
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 BUSINESS/INTERDISCIPLINARY

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

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following: 8		

MKTG 2301	Marketing and Society
MKTG 3501	Marketing Analytics
MKTG 4310	Retailing
MKTG 4420	Sales Management
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
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

Five Years, Three Co-ops in Summer 2/Fall

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with 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)			
	17	17	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		
	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 NU Path EI requirement.

³ One concentration course will fulfill WI.

⁴ Electives may be used to complete a secondary business concentration.

Bachelor of Science in International Business with Concentration in Management, BSIB

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

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

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 main D'Amore McKim School of Business Undergraduate page (p. 169).

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 201). Certain concentrations require additional prerequisites. Please consult your academic advisor to ensure you have met these requirements.

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

Required Concentration

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	

ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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 BUSINESS/INTERDISCIPLINARY

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

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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

Five-Year Program: Year 4 Abroad, 2 Co-ops (MSIM)

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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 Vacation or study abroad / Dialogue	0 Vacation or study abroad/ Dialogue	0
MGSC 2301	4 FINA 2202	4		
ACCT 1202	4 ENGW 1111	4		
ECON 1116 or ENTR 2301	4 Elective	4		
BUSN 1102	1			
	17	16	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ENTR 2301 or ECON 1116	4 INTB 2202	4 Elective	4 Co-op	0
Concentrator course	4 Concentrator course	4 Concentrator course	4	
Elective	4 Elective	4		
Elective	4 Elective	4		
BUSN 1100	1 BUSN 1103	1		
	17	17	8	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 ORGB 3201	4 INTB 3202	4 Vacation	0
	Concentrator course	4 Elective	4	
	ENGW 3304	4		
	Elective	4		
	0	16	8	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Expatriate year	Expatriate year	Expatriate year	Expatriate year	
Elective	4 Co-op abroad	Co-op abroad	Co-op abroad	
Elective	4			
Elective	4			
Elective	4			
	16	0	0	0

Year 5		
Fall	Hours Spring	Hours
INTB 4202	4 Final graduate-level classes for MIM	
Elective	4	
Elective	4	
Elective	4	
	16	0

Total Hours: 131

Five-Year Program: Year 3 Abroad with 3 Co-ops (Dual Degree)

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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
BUSN 1102	1 FINA 2202	4 Concentrator course	4	
MGSC 2301	4 ENGW 1111	4		
ACCT 1202	4 BUSN 1103	1		
ECON 1116 or ENTR 2301	4 ECON 1116 or ENTR 2301	4		
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 Co-op	0
	Concentrator course	4 Concentrator 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	Vacation	0	
Concentration course	4				
Elective	4				
Elective	4				
Elective	4				
	16	0	0	0	
Year 4					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
Concentration course	4 Co-op	0 Co-op	0 Vacation	0	
ORGB 3201	4				
ENGW 3304	4				
Elective	4				
	16	0	0	0	
Year 5					
Fall	Hours Spring	Hours			
INTB 4202	4 Elective ¹	4			
Elective	4 Elective	4			
Elective	4 Elective	4			
Elective	4 Elective	4			
	16	16			

Total Hours: 131

¹ If a student completes summer classes and no vacation, these electives will not be necessary.

Management Information Systems

Website (<http://www.damore-mckim.neu.edu>)

314 Hayden Hall

617.373.3132

617.373.3166 (fax)

Yang W. Lee, Associate Professor and Group Coordinator,

y.lee@northeastern.edu

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 information management 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 IS function of a company or in an IS consulting company
- To accelerate and enhance a career in another functional area such as accounting, finance, marketing, etc.

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 information management 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.

Programs

Bachelor of Science in Business Administration (BSBA)

- Bachelor of Science in Business Administration with Concentration in Management Information Systems (p. 204)

Bachelor of Science in International Business (BSIB)

- Bachelor of Science in International Business with Concentration in Management Information Systems (p. 208)

Bachelor of Science in Business Administration with Concentration in Management Info. Systems, BSBA

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Core Requirements

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	

Statistics

MGSC 2301	Business Statistics	4
-----------	---------------------	---

Macroeconomics and Microeconomics

ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

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	Strategy in Action	4
or STRT 4516	External Case Competition Challenge	

International Business/Social Responsibility

INTB 1203	International Business and Global Social Responsibility	4
-----------	---------------------------------------------------------	---

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 205).

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

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	
Electives		
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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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 BUSINESS/INTERDISCIPLINARY

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

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8

MKTG 2301	Marketing and Society
MKTG 3501	Marketing Analytics
MKTG 4310	Retailing
MKTG 4420	Sales Management
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
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

Five Years, Three Co-ops in Summer 2/Fall

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with 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)			
	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 NU Path EI requirement.

³ One concentration course will fulfill WI.

⁴ Electives may be used to complete a secondary business concentration.

Bachelor of Science in International Business with Conc. in Management Information Systems, BSIB

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

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

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 main D'Amore McKim School of Business Undergraduate page (p. 169).

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 209). Certain concentrations require additional prerequisites. Please consult your academic advisor to ensure you have met these requirements.

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

Required Concentration

Students in the Bachelor of Science in International Business with a Concentration in Management Information Systems are required to take the following prerequisite:

MISM 2301 Management Information Systems

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
MKTG 4508	Digital Marketing	
SCHM 3301	Global Supply Chain Strategy	
SCHM 3305	Sourcing and Procurement	
SCHM 3308	Supply Chain Analytics	

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	

ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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 BUSINESS/INTERDISCIPLINARY

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

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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

Five-Year Program: Year 4 Abroad, 2 Co-ops (MSIM)

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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 Vacation or study abroad / Dialogue	0 Vacation or study abroad/ Dialogue	0
MGSC 2301	4 FINA 2202	4		
ACCT 1202	4 ENGW 1111	4		
ECON 1116 or ENTR 2301	4 Elective	4		
BUSN 1102	1			
	17	16	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ENTR 2301 or ECON 1116	4 INTB 2202	4 Elective	4 Co-op	0
Concentrator course	4 Concentrator course	4 Concentrator course	4	
Elective	4 Elective	4		
Elective	4 Elective	4		
BUSN 1100	1 BUSN 1103	1		
	17	17	8	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 ORGB 3201	4 INTB 3202	4 Vacation	0
	Concentrator course	4 Elective	4	
	ENGW 3304	4		
	Elective	4		
	0	16	8	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Expatriate year	Expatriate year	Expatriate year	Expatriate year	
Elective	4 Co-op abroad	Co-op abroad	Co-op abroad	
Elective	4			
Elective	4			
Elective	4			
	16	0	0	0

Year 5		
Fall	Hours Spring	Hours
INTB 4202	4 Final graduate-level classes for MIM	
Elective	4	
Elective	4	
Elective	4	
	16	0

Total Hours: 131

Five-Year Program: Year 3 Abroad with 3 Co-ops (Dual Degree)

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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
BUSN 1102	1 FINA 2202	4 Concentrator course	4	
MGSC 2301	4 ENGW 1111	4		
ACCT 1202	4 BUSN 1103	1		
ECON 1116 or ENTR 2301	4 ECON 1116 or ENTR 2301	4		
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 Co-op	0
	Concentrator course	4 Concentrator 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	Vacation	0	
Concentration course	4				
Elective	4				
Elective	4				
Elective	4				
	16	0	0	0	
Year 4					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
Concentration course	4 Co-op	0 Co-op	0 Vacation	0	
ORGB 3201	4				
ENGW 3304	4				
Elective	4				
	16	0	0	0	
Year 5					
Fall	Hours Spring	Hours			
INTB 4202	4 Elective ¹	4			
Elective	4 Elective	4			
Elective	4 Elective	4			
Elective	4 Elective	4			
	16	16			

Total Hours: 131

¹ If a student completes summer classes and no vacation, these electives will not be necessary.

Marketing

Website (<http://www.damore-mckim.neu.edu>)

202 Hayden Hall
617.373.3260
617.373.8366 (fax)
Bruce H. Clark, Associate Professor and Group Coordinator,
b.clark@northeastern.edu

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, digital marketing, marketing research, marketing communications, and sales and account management.

Programs

Bachelor of Science in Business Administration (BSBA)

- Bachelor of Science in Business Administration with Concentration in Marketing (p. 212)

Bachelor of Science in International Business (BSIB)

- Bachelor of Science in International Business with Concentration in Marketing (p. 216)

Bachelor of Science in Business Administration with Concentration in Marketing, BSBA

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Core Requirements

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	
Statistics		
MGSC 2301	Business Statistics	4
Macroeconomics and Microeconomics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

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	Strategy in Action	4
or STRT 4516	External Case Competition Challenge	
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 213).

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

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
MKTG 4512	International Marketing	

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	

ENTR 3220	International Entrepreneurship and Innovation
ENTR 3305	Business Modeling for Entrepreneurs
ENTR 3306	Global Entrepreneurship
ENTR 3316	Microfinance and Economic Development in Latin America
ENTR 3320	Base of Pyramid Innovation
ENTR 3326	Sustainability in the Latin American Business Environment
ENTR 3330	Lean Design and Development for Entrepreneurs
ENTR 3336	Resource Management and Renewable Energy in Iceland
ENTR 3348	Family Business: A Global Perspective
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises
ENTR 3403	Managing Operations in a Technology-Based Startup Firm
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets
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

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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 BUSINESS/INTERDISCIPLINARY

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

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 in Summer 2/Fall

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with 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 NU Path EI requirement.

³ One concentration course will fulfill WI.

⁴ Electives may be used to complete a secondary business concentration.

Bachelor of Science in International Business with Concentration in Marketing, BSIB

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

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

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 main D'Amore McKim School of Business Undergraduate page (p. 169).

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 217). Certain concentrations require additional prerequisites. Please consult your academic advisor to ensure you have met these requirements.

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

Required Concentration

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
MKTG 4512	International Marketing	

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	

ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	
Electives		
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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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 BUSINESS/INTERDISCIPLINARY

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

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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

MGMT 4603 Leadership Seminar

ENTR 2215 Understanding Family Enterprise

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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-Year Program: Year 4 Abroad, 2 Co-ops (MSIM)**

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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 Vacation or study abroad / Dialogue	0 Vacation or study abroad/ Dialogue	0
MGSC 2301	4 FINA 2202	4		
ACCT 1202	4 ENGW 1111	4		
ECON 1116 or ENTR 2301	4 Elective	4		
BUSN 1102	1			
	17	16	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ENTR 2301 or ECON 1116	4 INTB 2202	4 Elective	4 Co-op	0
Concentrator course	4 Concentrator course	4 Concentrator course	4	
Elective	4 Elective	4		
Elective	4 Elective	4		
BUSN 1100	1 BUSN 1103	1		
	17	17	8	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 ORGB 3201	4 INTB 3202	4 Vacation	0
	Concentrator course	4 Elective	4	
	ENGW 3304	4		
	Elective	4		
	0	16	8	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Expatriate year	Expatriate year	Expatriate year	Expatriate year	
Elective	4 Co-op abroad	Co-op abroad	Co-op abroad	
Elective	4			
Elective	4			
Elective	4			
	16	0	0	0

Year 5		
Fall	Hours Spring	Hours
INTB 4202	4 Final graduate-level classes for MIM	
Elective	4	
Elective	4	

Elective	4
	16
	0

Total Hours: 131

Five-Year Program: Year 3 Abroad with 3 Co-ops (Dual Degree)

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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
BUSN 1102	1 FINA 2202	4 Concentrator course	4	
MGSC 2301	4 ENGW 1111	4		
ACCT 1202	4 BUSN 1103	1		
ECON 1116 or ENTR 2301	4 ECON 1116 or ENTR 2301	4		
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 Co-op	0
	Concentrator course	4 Concentrator 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	Vacation	0
Concentrator course	4			
Elective	4			
Elective	4			
Elective	4			
	16	0	0	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Concentration course	4 Co-op	0 Co-op	0 Vacation	0
ORGB 3201	4			
ENGW 3304	4			
Elective	4			
	16	0	0	0

Year 5

Fall	Hours Spring	Hours
INTB 4202	4 Elective ¹	4
Elective	4 Elective	4
Elective	4 Elective	4
Elective	4 Elective	4
	16	16

Total Hours: 131

¹ If a student completes summer classes and no vacation, these electives will not be necessary.

Supply Chain Management

Website (<http://www.damore-mckim.neu.edu>)

314 Hayden Hall

617.373.3132

617.373.3166 (fax)

Yang W. Lee, Associate Professor and Group Coordinator,
y.lee@northeastern.edu

From the *Fortune* 500 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, finance, or international business.

In addition to finding career opportunities with manufacturers, retailers, and distributors, supply chain management students may find similar opportunities with companies that sell supply chain services or transportation services in the marketplace. Consulting firms and government agencies at the federal, state, and local levels provide other career options.

Programs

Bachelor of Science in Business Administration (BSBA)

- Bachelor of Science in Business Administration with Concentration in Supply Chain Management (p. 220)

Bachelor of Science in International Business (BSIB)

- Bachelor of Science in International Business with Concentration in Supply Chain Management (p. 224)

Bachelor of Science in Business Administration with Concentration in Supply Chain Management, BSBA

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Core Requirements

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	

Statistics

MGSC 2301	Business Statistics	4
-----------	---------------------	---

Macroeconomics and Microeconomics

ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

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	Strategy in Action	4
or STRT 4516	External Case Competition Challenge	
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 221).

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

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	

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 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	Business, Economics, and History of Hispaniola and Latin America
ENTR 3328	Field Research in Sustainable Business
ENTR 3338	Field Research in Sustainable Energy in Iceland
ENTR 3346	Family Business in Italy
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital
ENTR 3212	Innovation for Social Change
ENTR 3217	Global Family Business Leadership
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World
ENTR 3220	International Entrepreneurship and Innovation
ENTR 3305	Business Modeling for Entrepreneurs
ENTR 3306	Global Entrepreneurship
ENTR 3316	Microfinance and Economic Development in Latin America
ENTR 3320	Base of Pyramid Innovation
ENTR 3326	Sustainability in the Latin American Business Environment
ENTR 3330	Lean Design and Development for Entrepreneurs

ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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 BUSINESS/INTERDISCIPLINARY

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

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	

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
MKTG 4512	International Marketing

	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		

Plan of Study

Five Years, Three Co-ops in Summer 2/Fall

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with 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

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)			
	17	17	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	

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			
	17	0	0	8

ECON 1116, 1115, or MATH 1231 (FQ)	4				
	16	0	0	8	
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
Concentration course ³	4	Co-op		Co-op	Vacation
ENGW 3304	4				
Elective ⁴	4				
Elective ⁴	4				
	16	0	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 NU Path EI requirement.

³ One concentration course will fulfill WI.

⁴ Electives may be used to complete a secondary business concentration.

Bachelor of Science in International Business with Concentration in Supply Chain Management, BSIB

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

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

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 main D'Amore McKim School of Business Undergraduate page (p. 169).

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 225). Certain concentrations require additional prerequisites. Please consult your academic advisor to ensure you have met these requirements.

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

Required Concentration

Students in the Bachelor of Science in International Business with a Concentration in Supply Chain Management are required to take the following prerequisite:

SCHM 2301	Supply Chain and Operations Management
-----------	----------------------------------------

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	

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	

ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	
Electives		
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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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 BUSINESS/INTERDISCIPLINARY

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

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
MKTG 4512	International Marketing	

Plan of Study**Five-Year Program: Year 4 Abroad, 2 Co-ops (MSIM)**

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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 Vacation or study abroad / Dialogue	0 Vacation or study abroad/ Dialogue	0
MGSC 2301	4 FINA 2202	4		
ACCT 1202	4 ENGW 1111	4		
ECON 1116 or ENTR 2301	4 Elective	4		
BUSN 1102	1			
	17	16	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ENTR 2301 or ECON 1116	4 INTB 2202	4 Elective	4 Co-op	0
Concentrator course	4 Concentrator course	4 Concentrator course	4	
Elective	4 Elective	4		
Elective	4 Elective	4		
BUSN 1100	1 BUSN 1103	1		
	17	17	8	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 ORGB 3201	4 INTB 3202	4 Vacation	0
	Concentrator course	4 Elective	4	
	ENGW 3304	4		
	Elective	4		
	0	16	8	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Expatriate year	Expatriate year	Expatriate year	Expatriate year	
Elective	4 Co-op abroad	Co-op abroad	Co-op abroad	
Elective	4			
Elective	4			
Elective	4			
	16	0	0	0

Year 5		
Fall	Hours Spring	Hours
INTB 4202	4 Final graduate-level classes for MIM	
Elective	4	
Elective	4	

Elective	4
	16
	0

Total Hours: 131

Five-Year Program: Year 3 Abroad with 3 Co-ops (Dual Degree)

Note: Plan of study will vary based upon student's academic program. Individual study plans will be created with academic advisor.

- Language proficiency tested at the end of each year to determine progression. Electives may be moved or 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
BUSN 1102	1 FINA 2202	4 Concentrator course	4	
MGSC 2301	4 ENGW 1111	4		
ACCT 1202	4 BUSN 1103	1		
ECON 1116 or ENTR 2301	4 ECON 1116 or ENTR 2301	4		
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 Co-op	0
	Concentrator course	4 Concentrator 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	Vacation	0
Concentrator course	4			
Elective	4			
Elective	4			
Elective	4			
	16	0	0	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Concentration course	4 Co-op	0 Co-op	0 Vacation	0
ORGB 3201	4			
ENGW 3304	4			
Elective	4			
	16	0	0	0

Year 5

Fall	Hours Spring	Hours
INTB 4202	4 Elective ¹	4
Elective	4 Elective	4
Elective	4 Elective	4
Elective	4 Elective	4
	16	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 Interactive Media, BS (p. 228)
- Computer Science and Business Administration, BS (p. 231)
- Economics and Business Administration, BS (p. 235)
- Information Science and Business Administration, BS (p. 237)
- Mathematics and Business Administration, BS (p. 240)
- Political Science and Business Administration, BS (p. 243)

Business Administration and Interactive Media, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Business Core Requirements

Code	Title	Hours
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	

Interactive Media Requirements

Code	Title	Hours
Interactive Media Courses		
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5
ARTG 1250	Design Process Context and Systems	4
ARTG 2260	Programming Basics	4
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	5
ARTG 3500	Transmedia Design	4
ARTH 1100	Interactive Media and Society	4
Art and Design		
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTG 2250 and ARTG 2251	Typography 1 and Type Tools	5

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
<i>Business</i>		

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

Interactive Media

ARTF 2220	4D Fundamentals: Sequence and Drawing
ARTG 2252	Graphic Design 1
ARTG 3350	Typography 2
ARTD 2200	Interactive Narrative
ARTG 3250	Physical Computing
ARTG 3700	Interaction Design 2: Mobile
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. 229).

- Accounting
- Business/Interdisciplinary
- Entrepreneurship and Innovation
- Finance
- Management
- Management Information Systems
- Supply Chain Management

Integrative Courses

Code	Title	Hours
Integrative Courses		
Note: These courses also satisfy requirements above:		
MKTG 3301	Marketing Management	4
ARTG 3500	Transmedia Design	4

Capstone

Complete the interactive media capstone or the business capstone: 4-8

Interactive Media Capstone

ARTG 4700	Interaction Team Degree Project 1
ARTG 4701	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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	

ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World
ENTR 3220	International Entrepreneurship and Innovation
ENTR 3305	Business Modeling for Entrepreneurs
ENTR 3306	Global Entrepreneurship
ENTR 3316	Microfinance and Economic Development in Latin America
ENTR 3320	Base of Pyramid Innovation
ENTR 3326	Sustainability in the Latin American Business Environment
ENTR 3330	Lean Design and Development for Entrepreneurs
ENTR 3336	Resource Management and Renewable Energy in Iceland
ENTR 3348	Family Business: A Global Perspective
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises
ENTR 3403	Managing Operations in a Technology-Based Startup Firm
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets
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

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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	

With advisor approval, a directed study, project study, or appropriate graduate-level course may also be taken as a computer science elective.	
Complete one course in the following ranges:	4
CS 2600 to CS 7999 but not CS 5010	
IS 2000 to IS 7999 but not IS 4900	

Computer Science and Business Administration, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C- or higher is required in Computer Science Fundamental Courses.		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4
Computer Science Senior Seminar		
CS 4000 or THTR 1170	Senior Seminar The Eloquent Presenter	1

Upper Division CS/IS Elective

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 4514	Internal Case Competition Challenge	
STRT 4516	External Case Competition Challenge	

¹ Strategy in Action (STRT 4501), Internal Case Competition Challenge (STRT 4514) and External Case Competition Challenge (STRT 4516) all satisfy the Capstone Requirement.

Business Concentration

Complete a four-course business concentration from the following list. Requirements for the concentrations are listed below (p. 232).

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Marketing
- Supply Chain Management

Information Resource Management

Code	Title	Hours
Information Resource Management		
MISM 3305	Information Resource Management (integrative course)	4

Mathematics and Economics Requirements

Code	Title	Hours
Mathematics		
MATH 1341 or MATH 1231	Calculus 1 for Science and Engineering or Calculus for Business and Economics	4
Economics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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

ACCT 3416	Strategic Cost Analysis for Decision Making
ACCT 4412	Auditing and Other Assurance Services
ACCT 4414	Income Tax Determination and Planning

Computer Science English Requirement

Note: 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).

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 three general electives.		12

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
- 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	

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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	

ENTR 3336	Resource Management and Renewable Energy in Iceland
ENTR 3348	Family Business: A Global Perspective
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises
ENTR 3403	Managing Operations in a Technology-Based Startup Firm
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets
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
MGMT 3330	Developing Leaders for Global Sustainability
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches
MGMT 3420	Managing Human Capital
MGMT 3435	Social Networks and Organizations
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
MGMT 4603	Leadership Seminar
ENTR 2215	Understanding Family Enterprise

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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		
Complete three of the following:		12

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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

Five Years, Three Co-ops in Summer 2/Fall

Year 1				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 1800	4 CS 2510	4 Vacation	0 Vacation	0
CS 2500	4 CS 2511	1		
CS 2501	1 CS 2800	4		
CS 1200	1 CS 2801	1		
ECON 1115	4 Elective	4		
ENGW 1111	4 ECON 1116	4		
CS 1801	0			
	18	18	0	0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 CS 4800	4 Vacation	0 Co-op	0
MATH 1341	4 CS 3200	4		
ACCT 1201	4 ACCT 2301	4		
MGSC 2301	4 FINA 2201	4		
	CS 1210	1		
	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
	MISM 3305	4 MKTG 2201	4	
	Business elective	4		
	ENGW 3302	4		
	0	16	8	0
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CS 3700	4 Elective	4 Co-op	0
	Business elective	4 Elective	4	
	Business elective	4		
	CS undergraduate elective	4		
	0	16	8	0
Year 5				
Fall	Hours Spring	Hours		
Co-op	0 STRT 4501	4		
	Business elective	4		
	CS 4500	4		
	CS 4000	1		
	SOCL 4528	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
CS 1800	4 CS 2510	4 Vacation	0 Vacation	0
CS 2500	4 CS 2511	1		
CS 2501	1 CS 2800	4		
CS 1200	1 CS 2801	1		
ECON 1115	4 Elective	4		
ENGW 1111	4 ECON 1116	4		
CS 1801	0			
	18	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			
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
CS 4800	4 Co-op	Co-op	0 ORGB 3201	4
CS 3200	4		MKTG 2201	4
ACCT 2301	4			
FINA 2201	4			
	16	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
MISM 3305	4		Elective	4
Business elective	4			
ENGW 3302	4			
	16	0	0	8
Year 5				
Fall	Hours Spring	Hours		
CS undergraduate elective	4 STRT 4501	4		
Business elective	4 SOCL 4528	4		
Business elective	4 CS 4500	4		
CS 3700	4 Business elective	4		
	CS 4000	1		
	16	17		

Total Hours: 134

Economics and Business Administration, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Economics Requirements

Grades in required economics courses must average a minimum GPA of 2.000.

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 3560	Applied Econometrics	4
ECON 2350	Statistics	4
or MGSC 2301	Business Statistics	
Economics Electives		
Complete four courses from the following lists with no more than one at the introductory level:		16
<i>Introductory</i>		
ECON 1200 to ECON 1990		
<i>Intermediate/Advanced</i>		
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

Additional Requirements

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

Business Concentration

Complete one of the following business concentrations. Requirements for the concentrations are listed below (p. 235).

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Management Information Systems
- Marketing
- Supply Chain Management

Business Cooperative Education Requirement

Complete one six-month co-op experience.

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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	

ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

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 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 4518	Risk Management and Insurance	
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		

Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	

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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C- or higher is required in Computer Science Fundamental courses.		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	4
Computer Science Senior Seminar		

CS 4000 or THTR 1170	Senior Seminar The Eloquent Presenter	1
-------------------------	------------------------------------------	---

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

Integrative Courses

MISM 3305	Information Resource Management	4
MISM 3404	Data Communications	4

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		
STRT 4501	Strategy in Action	4
STRT 4514	Internal Case Competition Challenge	4
STRT 4516	External Case Competition Challenge	4

¹ Strategy in Action (STRT 4501), Internal Case Competition Challenge (STRT 4514), External Case Competition Challenge (STRT 4516) all satisfy the Capstone Requirement.

Business Concentration

Complete a four-course business concentration from the following list. Requirements for the concentrations are listed below (p. 238).

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Marketing
- Supply Chain Management

Mathematics and Economics Requirements

Code	Title	Hours
------	-------	-------

Mathematics

MATH 1341 or MATH 1231	Calculus 1 for Science and Engineering Calculus for Business and Economics	4
---------------------------	-------------------------------------------------------------------------------	---

Economics

ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4

Computing and Social Issues

Code	Title	Hours
------	-------	-------

Complete one of the following: 4

PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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 three general electives. 12

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
- 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	

ENTR 3401 Management of Operations and Growth in Small- and Medium-Sized Enterprises

ENTR 3403 Managing Operations in a Technology-Based Startup Firm

ENTR 3410 Entrepreneurship and Intrapreneurship in Innovation-Driven Markets

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

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 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 4518	Risk Management and Insurance	
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

Complete three of the following: 12

MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	

MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches
MGMT 3420	Managing Human Capital
MGMT 3435	Social Networks and Organizations
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
MGMT 4603	Leadership Seminar
ENTR 2215	Understanding Family Enterprise

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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

Five Years, Three Co-ops in Summer 2/Fall

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800	4	CS 2510	4	Vacation	0	Vacation	0
CS 2500	4	CS 2511	1				
CS 2501	1	CS 2800	4				

CS 1200	1	CS 2801	1
ECON 1115	4	Elective	4
ENGW 1111	4	ECON 1116	4
CS 1801	0		
		18	18
			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	CS 3200	4				
ACCT 1201	4	ACCT 2301	4				
MGSC 2301	4	CS 4800	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				
		0	16			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 3305	4	Elective	4		
		Business elective	4				
		Business elective	4				
		0	16			8	0

Year 5			
Fall	Hours	Spring	Hours
Co-op	0	STRT 4501	4
		Business elective	4
		Business elective	4
		SOCL 4528	4
		CS 4000	1
		0	17

Total Hours: 134

Mathematics and Business Administration, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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	
MATH 2331	Linear Algebra	

Co-op Reflections

MATH 3000	Co-op and Experiential Learning Reflection Seminar 1	1
or MATH 4000	Co-op and Experiential Learning Reflection Seminar 2	

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
-----------	--------------------	---

Additional Requirements

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	

Integrative Course

Note: Financial Risk Management (FINA 4512) also counts toward the finance concentration.

Finance Concentration

Code	Title	Hours
------	-------	-------

Finance Requirements

FINA 3301	Corporate Finance	4
FINA 3303	Investments	4
FINA 4512	Financial Risk Management	4

Finance Electives

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 4518	Risk Management and Insurance	
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. 242).

- Accounting
- Entrepreneurship and Innovation
- Interdisciplinary Business
- Management
- Management Information Systems
- Marketing
- Supply Chain Management

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

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	
Electives		

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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
MGMT 4603	Leadership Seminar
ENTR 2215	Understanding Family Enterprise

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

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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

Political Science and Business Administration, 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. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Political Science Major Requirements

Code	Title	Hours
Introduction to College		
POLS 1000	Political Science at Northeastern	1
or BUSN 1102	Personal Skill Development for Business	
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 2326	Premodern 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	
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		
Statistics		
POLS 2400	Quantitative Techniques	4
or MGSC 2301	Business Statistics	

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. 244).

- American Political Institutions
- Identity, Culture, and Politics
- Law and Legal Studies

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

Additional Requirements

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	
Capstone Requirement		
POLS 4701	Political Science Senior Capstone	4
or STRT 4501	Strategy in Action	

Business Concentration

Complete one of the following business concentrations. Requirements for the concentrations are listed below (p. 244).

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Management Information Systems
- Marketing
- Supply Chain Management

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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	

ENTR 3217	Global Family Business Leadership
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World
ENTR 3220	International Entrepreneurship and Innovation
ENTR 3305	Business Modeling for Entrepreneurs
ENTR 3306	Global Entrepreneurship
ENTR 3316	Microfinance and Economic Development in Latin America
ENTR 3320	Base of Pyramid Innovation
ENTR 3326	Sustainability in the Latin American Business Environment
ENTR 3330	Lean Design and Development for Entrepreneurs
ENTR 3336	Resource Management and Renewable Energy in Iceland
ENTR 3348	Family Business: A Global Perspective
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises
ENTR 3403	Managing Operations in a Technology-Based Startup Firm
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets
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

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4

MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415 or POLS 3418	Ethnic Political Violence Nationalism	4
Electives		
Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	

POLS 2368	Music and Politics
POLS 2370	Religion and Politics
POLS 2375	Gender and Politics
POLS 2380	Latino Politics in the United States
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
POLS 3320	Politics and Mass Media
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	

Business Administration PlusOne Programs**Programs**

- Bachelor of Science in Business Administration/Master of Science in Finance, BSBA/MSF (p. 193)
- Bachelor of Science in International Business/Master of Science in Information Management, BSIB/MSIM (p. 249)

Bachelor of Science in Business Administration with Concentration in Finance, BSBA/Master of Science in Finance, MSF**Program Requirements**

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Core Requirements

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	
Statistics		
MGSC 2301	Business Statistics	4
Macroeconomics and Microeconomics		
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
Business Requirements		
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	Strategy in Action	4
or STRT 4516	External Case Competition Challenge	
International Business/Social Responsibility		
INTB 1203	International Business and Global Social Responsibility	4

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 194).

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

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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	

BSBA/MSF Admissions Requirements

FINA 3301	Corporate Finance (a grade of B or higher is required)	4
FINA 3303	Investments (a grade of B or higher is required)	4

Students are required to have an undergraduate GPA of 3.250.

Graduate Course Work to Be Taken As an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Required Courses

FINA 6202		
FINA 6204	International Finance Management	3

Upper-Level Finance Courses

Complete two courses from the range FINA 6000 to FINA 6999 but not FINA 6205, FINA 6209, or FINA 6219.		8
--------------------------------------------------------------------------------------------------------	--	---

Graduate Open Elective

Complete one graduate open elective.		4
--------------------------------------	--	---

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 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	

ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

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 MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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	

**Bachelor of Science in International Business, BSIB/
International Management, MSIM**

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

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
-----------	---------------------------------------------	---

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 main D'Amore McKim School of Business Undergraduate page (p. 169).

Concentration

Complete the required concentration appropriate to your program. A second concentration is optional. Requirements for the concentrations are listed below (p. 250). Certain concentrations require additional prerequisites. Please consult your academic advisor to ensure you have met these requirements.

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

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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory Abroad	
ENTR 4514	Development Practice and Global Citizenship in India	

Introductory Course

ENTR 2301 or ENTR 2303	Innovation! Entrepreneurial Marketing and Selling	4
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 4506	Advanced Studies in Social Enterprise	
Electives		
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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
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 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 4518	Risk Management and Insurance	
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		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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	

BSIB/MSIM Admissions Requirements

Students are required to apply for admission to the BSIB/MSIM program. The following are prerequisites for students entering the program:

MGSC 2301	Business Statistics
-----------	---------------------

INTB 3202 and INTB 3310	Managing the International Assignment and Cultural Aspects of International Business
ACCT 1201 and ACCT 1202	Financial Accounting and Reporting and Financial Accounting in a Global Context
ACCT 2301 and ACCT 2302	Managerial Accounting and Managerial Accounting in a Global Context
FINA 2201 and FINA 2202	Financial Management and Financial Management in a Global Context

At least one one semester (fall or spring) of study abroad, which must include upper-level course work toward the business degree

Two six-month co-op placements (one completed overseas)

Graduate Course Work to Be Taken As an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Required Courses

INTB 6260	Advanced Topics in Global Management and Strategy	3
or STRT 6200	Strategic Decision Making in a Changing Environment	
FINA 6209	Introduction to International Accounting and Finance (or Finance Elective)	3
MGSC 6209	Business Statistics	3
or STRT 6210	Workforce Metrics and Analytics	

MSIM Curriculum Elective

Complete two or three elective courses that fulfill the Master of Science in International Management Curriculum. See your advisor for an approved list. Students should also consult their academic advisor for an individualized plan as courses may be subject to change.

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 five 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. 252)
- Emerging Markets, Minor (p. 252)
- Entrepreneurship, Minor (p. 253)
- Global Social Entrepreneurship, Minor (p. 253)
- Sustainable Business Practices, Minor (p. 254)

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

ACCT 1209	Financial Accounting and Reporting	4
-----------	------------------------------------	---

Organizational Behavior

ORGB 3209	Organizational Behavior	4
-----------	-------------------------	---

Finance

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):

MKTG 2209	Introduction to Marketing	4
-----------	---------------------------	---

Business Elective

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:

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

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

INTB 2501 Competing to Win in Emerging Markets 4

Field Research

INTB 3316 and INTB 3318 Economic, Social, and Political Dimensions of Doing Business in Brazil and Field Research in Emerging Markets in Brazil 8

Electives

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
HIST 2397	Modern Africa
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

The Center for Entrepreneurship Education is a university-wide resource that integrates entrepreneurship and innovation courses, entrepreneurial co-ops in early stage companies, venture incubation through the on-campus IDEA program, and venture launch by helping entrepreneurs raise startup funds from the local angel and venture capital community.

One of the flagship programs of the center is a minor in entrepreneurship. The minor introduces students to the challenges and opportunities associated with starting and growing their own business. Students are exposed to innovation, marketing, and business modeling skills and have an opportunity to develop prototypes for their new ideas. They will then work in interdisciplinary teams to develop business plans suitable for their ventures. Support is provided to help students advance their ventures through IDEA, the venture incubator. Students are also encouraged to participate in the nationally recognized Entrepreneurs Club.

The minor in entrepreneurship allows nonbusiness students to explore their major discipline through a completely different lens and to potentially launch a new venture. Business students should pursue a concentration or dual concentration in entrepreneurship and innovation.

For more information, contact the program coordinator, Professor Cheryl Mittness, in 219 Hayden Hall, at 617.373.3728, or by email (c.mittness@northeastern.edu). Also visit the program website (<http://www.northeastern.edu/entrepreneurship>).

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
ENTR 4501	Business Planning for Technology Ventures	4
or ENTR 4503	Business Planning for Small and Medium Enterprises	

Electives

A minimum of two courses must be ENTR courses.

Complete four of the following: 16

ENTR 2301	Innovation!
ENTR 2303	Entrepreneurial Marketing and Selling
ENTR 3220	International Entrepreneurship and Innovation
ENTR 3305	Business Modeling for Entrepreneurs
ENTR 3330	Lean Design and Development for Entrepreneurs
ENTR 4510	New Venture Laboratory 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 credit) Interdisciplinary Minor in Global Social Entrepreneurship (GSE) is administered by the D'Amore-McKim School of Business through its Entrepreneurship and Innovation Group (ENT). The D'Amore-McKim School of Business collaborates with the College of Social Sciences and Humanities (CSSH) for shared academic content through its international affairs/political sciences and human services programs.

The minor consists of three on-campus courses and one two-course Dialogue of Civilizations Program (Dialogue). The minor is open to business and non-business students. Several of the courses included in this minor may also apply to other programs or individual course requirements.

Because this minor is an interdisciplinary one, *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 Program, 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 D'Amore-McKim School of Business but only one from CSSH.

This minor uniquely combines course work from two colleges with a summer field research experience. The minor introduces students to the ways in which the private sector (businesses and nonprofits) can help to build sustainable solutions to social problems on a global basis. Students study how to sustainably address challenging problems such as extreme poverty, inadequate education, and human rights abuses. Students in this minor also have the unique opportunity to engage in practical, real-world field research in the form of specially designed NU Dialogue of Civilizations programs, from providing business consulting services to "slum" entrepreneurs in South Africa to engaging with women microentrepreneurs in poor communities in India.

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 four ENTR courses in social entrepreneurship and does not require a Dialogue. Students may also choose to pursue both the minor and the ENT concentration.

Program 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

ENTR 2206	Global Social Enterprise	4
-----------	--------------------------	---

Research Courses

Complete one of the following: 8

ENTR 3306 and ENTR 3308	Global Entrepreneurship and Business Economic History of South Africa	
ENTR 3316 and ENTR 3318	Microfinance and Economic Development in Latin America and Business, Economics, and History of Hispaniola and Latin America	
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	

Electives

Complete two of the following: 8

ANTH 2305	Global Markets and Local Culture	
ANTH 3120	Consumer Cultures	
ENTR 2414	Social Responsibility of Business in an Age of Inequality	
ENTR 3212	Innovation for Social Change	

ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
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	Strategic Philanthropy and Nonprofit Management	
HUSV 3550	Social Policy, Advocacy, and Activism	
LPSC 2301	Introduction to Law, Policy, and Society	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 3324	Law and Society	
POLS 3487	Politics of Developing Nations	
POLS 3406	International Law	

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

FINA 2720	Sustainability in the Business Environment	4
-----------	-----------------------------------------------	---

Field Research

Complete one of the following: 8

ENTR 3326 and ENTR 3328	Sustainability in the Latin American Business Environment and Field Research in Sustainable Business	
ENTR 3336 and ENTR 3338	Resource Management and Renewable Energy in Iceland and Field Research in Sustainable Energy in Iceland	

Electives

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
ME 4680	Energy Systems
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

College of Computer and Information Science

Website (<http://www.ccs.neu.edu/undergraduate>)

Carla E. Brodley, PhD, Dean

Mark Erickson, MEd, Assistant Dean of Academic Advising and Employer Relations

Doreen L. Hodgkin, MEd, Associate Dean, Administration and Student Affairs

Karyn Rosen, MEd, Assistant Dean of Cooperative Education

Alan Mislove, PhD, Associate Professor, Associate Dean, and Director of Undergraduate Studies

Martin Schedlbauer, PhD, Director of Information Science Program, Clinical Professor

202 West Village H
617.373.2462
advising@ccs.neu.edu

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) and information science (BS); combined majors with business administration, cognitive psychology, biology, mathematics, physics, environmental science, game development, interactive media, digital art, music technology, linguistics, communication, and journalism; 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 computer science with 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:[QY Richard: Instead of bullets in the course lists, I think we should use another symbol. In last year's cat we used a dash]
 - Discrete Structures (CS 1800)
 - Fundamentals of Computer Science 1 (CS 2500)
 - Fundamentals of Computer Science 2 (CS 2510)
 - Logic and Computation (CS 2800)
- 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 courses
- A minimum GPA of 2.000 for business courses in the combined CS and business and IS and business majors (or the usiness 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)

- Bachelor of Science in Computer Science (p. 257)
- Bachelor of Science in Computer Science with Concentration in Cyber Operations (p. 260)

Bachelor of Arts in Computer Science (BACS)

- Bachelor of Arts in Computer Science (p. 262)

Dual degree

- Bachelor of Science/Master of Science in Computer Science, BSCS/MSCS (p. 264)

Minor

- Computer Science (p. 266)

Computer Science, BSCS

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Major Requirements

Computer Science Overview

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

Computer Science Fundamental Courses

A grade of C– or higher is required in computer science fundamental courses.

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 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
CS 4800	Algorithms and Data	4

Computer Science Senior Seminar

CS 4000	Senior Seminar	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 4650	High Performance Computing	
CS 4750	Secure Wireless Ad Hoc Robots on Mission (SWARM) 1	
CS 4760	Secure Wireless Ad Hoc Robots on Mission (SWARM) 2	
CS 4900	Honors Senior Seminar	
CS 4991	Research	
IS 4900	Information Science Senior Project	
IS 4991	Research	

Computer Science Upper-Division Electives

With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

Complete two courses from the following ranges: 8

CS 2500 to CS 7999 but not CS 5010	
IS 2000 to IS 7999 but not IS 4900	

Additional Courses for BS

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

PHIL 1145	Technology and Human Values	
-----------	-----------------------------	--

SOCL 1280	The Twenty-First-Century Workplace	
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

Electrical Engineering

EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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 4106 and ENVR 4107	Coastal Processes and Lab for ENVR 4106	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	
ENVR 5244 and ENVR 5245	Sedimentation and Lab for ENVR 5244	

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 English Requirement**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 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

Computer Science with Concentration in Cyber Operations, BSCS

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science/Cyber Operations Major Requirements

Computer Science Overview

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

Computer Science Fundamental Courses

A grade of C– or higher is required in computer science fundamental courses.

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 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
CS 4800	Algorithms and Data	4

Computer Science Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

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 4650	High Performance Computing	
CS 4750	Secure Wireless Ad Hoc Robots on Mission (SWARM) 1	

CS 4760	Secure Wireless Ad Hoc Robots on Mission (SWARM) 2	
CS 4900	Honors Senior Seminar	
CS 4991	Research	
IS 4900	Information Science Senior Project	
IS 4991	Research	

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

Additional Courses for BS

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
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-Century Workplace	
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

Electrical Engineering

EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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 Dynamic Earth
and ENVR 1201 and Lab for ENVR 1200

Then complete one of the following:

ENVR 2310 Earth Materials
and ENVR 2311 and Lab for ENVR 2310

ENVR 2340 Earth Landforms and Processes
and ENVR 2341 and Lab for ENVR 2340

ENVR 3300 Geographic Information Systems
and ENVR 3301 and Lab for ENVR 3300

ENVR 4106 Coastal Processes
and ENVR 4107 and Lab for ENVR 4106

ENVR 4500 Applied Hydrogeology
and ENVR 4501 and Lab for ENVR 4500

ENVR 5244 Sedimentation
and ENVR 5245 and Lab for ENVR 5244

Geology/Environmental Science (Option 3)

ENVR 1202 History of Earth and Life
and ENVR 1203 and Interpreting Earth History

ENVR 5242 Ancient Marine Life
and ENVR 5243 and Lab for ENVR 5242

Physics

Complete one of the following sequences:

Sequence A

PHYS 1145 Physics for Life Sciences 1
and PHYS 1146 and Lab for PHYS 1145

PHYS 1147 Physics for Life Sciences 2
and PHYS 1148 and Lab for PHYS 1147

Sequence B

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 1155 Physics for Engineering 2
and PHYS 1156 and Lab for PHYS 1155
and PHYS 1157 and Interactive Learning Seminar for
PHYS 1155

Sequence C

PHYS 1161 Physics 1
and PHYS 1162 and Lab for PHYS 1161
and PHYS 1163 and Recitation for PHYS 1161

PHYS 1165 Physics 2
and PHYS 1166 and Lab for PHYS 1165
and PHYS 1167 and Recitation for PHYS 1165

Computer Science English Requirement**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.

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 CS 5010) and 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**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	4	Vacation	0	Vacation	0
CS 1800	4	CS 2511	1				
CS 1801	0	CS 2800	4				
CS 2500	4	CS 2801	1				
CS 2501	1	Elective	4				
ENGW 1111	4	Elective	4				
Elective	4						
	18		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 3700	4	Co-op	0	Co-op	0	MATH 2331	4
CS 4800	4					Elective	4
MATH 1342	4						
Science elective with lab	5						
	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	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 4000	1
SOCL 4528	4	CS 4500	4
IA 5010	4	CS 5770	4
EECE 2160	3	CS 6710	4
		Capstone	4
	15		17

Total Hours: 135

Computer Science, BACS

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Requirements for BA

All BA students are required to complete the BA requirements (p. 37).

Computer Science Major Requirements**Computer Science Overview**

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

Computer Science Fundamental Courses

A grade of C– or higher is required in computer science fundamental courses.

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 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	Software Development	4
CS 4800	Algorithms and Data	4
Computer Science Senior Seminar		
CS 4000 or THTR 1170	Senior Seminar 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 4650	High Performance Computing	
CS 4750	Secure Wireless Ad Hoc Robots on Mission (SWARM) 1	
CS 4760	Secure Wireless Ad Hoc Robots on Mission (SWARM) 2	
CS 4900	Honors Senior Seminar	
CS 4991	Research	
IS 4900	Information Science Senior Project	
IS 4991	Research	

Additional Courses for BA**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
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

Upper-Division Elective

Computer Science or Mathematics Upper-Division Elective

Complete an elective from one of the following options:		4
CS 2500 to CS 7999 but not CS 5010		
IS 2000 to IS 7999 but not IS 4900		
MATH 2321	Calculus 3 for Science and Engineering	
MATH 2331	Linear Algebra	
MATH 3000 to MATH 4581 but not MATH 4025		

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Computer Science English Requirement

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 ten general electives. 40

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

Five Years, Three Co-ops in Summer 2/Fall

Year 1					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 1200	1	CS 2510	4	Vacation	0
CS 1800	4	CS 2511	1		
CS 1801	0	CS 2800	4		
CS 2500	4	CS 2801	1		

CS 2501	1	Foreign language course	4		
ENGW 1111	4	Elective	4		
Foreign language course	4				
		18	18	0	0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 3650	4	Vacation	0	Co-op	0
CS 4800	4	CS 3800	4				
MATH 1341	4	MATH 1342	4				
Foreign language course	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 3700	4	Elective	4	Co-op	0
		MATH 3081	4	Elective	4		
		ENGW 3302	4				
		Elective	4				
		0	16	8	0		

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	SOCL 4528	4	Elective	4	Co-op	0
		Science elective with lab	5	Elective	4		
		CS or MATH elective	4				
		Elective	4				
		0	17	8	0		

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS 4000	1
		CS 4500	4
		Capstone	4
		Elective	4
		Elective	4
		0	17

Total Hours: 135

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

Year 1					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 1200	1	CS 2510	4	Vacation	0
CS 1800	4	CS 2511	1		
CS 1801	0	CS 2800	4		
CS 2500	4	CS 2801	1		

CS 2501	1 Foreign language course	4			
ENGW 1111	4 Elective	4			
Foreign language course	4				
	18	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 4800	4				
MATH 1341	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			
SOCL 4528	4 CS 4000	1			
CS or MATH elective	4 CS 4500	4			
Science elective with lab	5 Capstone	4			
Elective	4 Elective	4			
	Elective	4			
	17	17			

Total Hours: 135

Computer Science, BSCS/MSCS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Major Requirements

Computer Science Overview

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

Computer Science Fundamental Courses

A grade of C– or higher is required in Computer Science Fundamental courses.

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4
CS 3700	Networks and Distributed Systems	4
CS 3800	Theory of Computation	4
CS 4500	Software Development	4

Computer Science Senior Seminar

CS 4000 or THTR 1170	Senior Seminar The Eloquent Presenter	1
----------------------	------------------------------------------	---

Computer Science Capstone

Complete one of the following CCIS capstones: 4-5

CS 4100	Artificial Intelligence	
CS 4300	Computer Graphics	
CS 4410	Compilers	
CS 4150	Game Artificial Intelligence	
CS 4550	Web Development	
CS 4900	Honors Senior Seminar	
CS 4991	Research	
IS 4900	Information Science Senior Project	
IS 4991	Research	

Computer Science Upper-Division Elective

With advisor approval, a directed study, project study, or appropriate graduate-level course may also be taken as an upper-division elective.

Complete one course in the following ranges: 4

CS 2600 to CS 7999 but not CS 5010

IS 2000 to IS 7999 but not IS 4900

Additional Courses For BS

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

PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-Century Workplace	
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

Electrical Engineering

EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	4
-------------------------	---------------------------------------------------------	---

Science Requirement

Complete two courses for one of the following sciences: 10

Biology

Complete the following course

BIOL 1111 and BIOL 1112	General Biology 1 and Lab for BIOL 1111	
-------------------------	-----------------------------------------	--

Then complete a second course from the below options:

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	
-------------------------	-------------------------------------	--

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 4106 and ENVR 4107	Coastal Processes and Lab for ENVR 4106	

ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	
ENVR 5244 and ENVR 5245	Sedimentation and Lab for ENVR 5244	

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 English Requirement

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 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). At least 32 SH in Computer must be taken at the Master's level or higher.

Master's-Level Courses to be Taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Required Master's-Level Computer Science Core Courses

CS 5400	Principles of Programming Language	4
CS 5600	Computer Systems	4
CS 5800	Algorithms	4

Master's-Level Computer Science Elective

Complete one master's-level course to count toward undergraduate requirements. Master's-level computer science electives may be chosen from either master's courses or from those PhD courses for which the student is qualified. Note: CS 5010 may not be taken as a master's-level computer science elective because it duplicates material taught in the undergraduate curriculum.

Entrance Requirements

- Evaluation for entrance may be requested after a minimum of 3 semesters of CCIS coursework.
- The GPA in CCIS courses must be at least 3.25.
- The overall GPA must be at least 3.25.
- Requests for entrance to the BS/MS can be via email to advising@ccs.neu.edu. If requesting via email, include your name, ID, and which BS/MS program you wish to enter.

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 for the bachelor's degree.

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	1 CS 2510	4 Vacation	0 Vacation	0
CS 1800	4 CS 2511	1		
CS 1801	0 CS 2800	4		
CS 2500	4 CS 2801	1		
CS 2501	1 Elective	4		
ENGW 1111	4 Elective	4		
Elective	4			
	18	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 3800	4			
MATH 1341	4			
CS 1210	1			

Science elective with lab	5			
	18	0	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 5800	4 Co-op	0 Co-op	MATH 2331	4
MATH 1342	4		Elective	4
Science elective with lab	5			
Elective	4			
	17	0	0	8

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 5600	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 Summer 1	Hours Summer 2	Hours
CS 3700	4 CS 4000	1 Vacation	0 Vacation	0
CS 5400	4 CS 4500	4		
SOCL 4528	4 Capstone	4		
EECE 2160	3 CS Graduate Elective	4		
EECE 2161	1 Elective	4		
	16	17	0	0

Year 6

Fall	Hours Spring	Hours
CS Graduate Elective	4 CS Graduate Elective	4
CS Graduate Elective	4 CS Graduate Elective	4
	8	8

Total Hours: 152

Computer Science, Minor

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

Required 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 Electives

Complete three courses from the following: 12

CS 2000 to CS 4989

IS 4200 Information Retrieval

IS 4300	Human Computer Interaction
IS 4500	Software Quality Assurance
IS 4600	Software Project Management
IS 4700	Social Information Systems
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 pre-approved 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.

Bouve 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 2200	Interactive Narrative
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 3352	Interaction Design Basics
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	Information Design Research Methods
COMM 2105	Social Networks
GAME 4355	Game Scripting
JRNL 3610	Digital Storytelling and Social Media
JRNL 3615	Advanced Digital Storytelling
JRNL 5214	The Online Newsroom Experience
MSCR 2500	Digital Media Research
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
IE 4615	Expert Systems and Neural Networks

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 3302	Introduction to Remote Sensing
ENVR 4563	Advanced Spatial Analysis
LING 3450	Syntax
LING 3452	Semantics
MATH 1260	Math Fundamentals for Games
MATH 2250	Programming Skills for Mathematics
MATH 2331	Linear Algebra
MATH 2341	Differential Equations and Linear Algebra for Engineering
MATH 3530	Numerical Analysis
MATH 4535	Mathematical Topics in Computer Vision
MATH 4606	Mathematical and Computational Methods for Physics
PHYS 1130	Computing, Data, and Science
PHYS 4606	Mathematical and Computational Methods for Physics
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
PPUA 6302	Information Design and Visual Analytics
ECON 1250	Game Theory in the Social Sciences
ECON 3560	Applied Econometrics
ECON 4653	Mathematics for Economics
ENGL 3340	Technologies of Text
PHIL 1105	Science and Pseudoscience
PHIL 1114	Reason, Risk, and Evidence
PHIL 1115	Introduction to Logic
PHIL 1145	Technology and Human Values

PHIL 1215	Symbolic Logic
PHIL 2001	Ethics and Evolutionary Games
PHIL 4510	Philosophy of Science
PHIL 4515	Advanced Logic
PHIL 4520	Philosophy of Logic
SOCL 3485	Environment, Technology, and Society
SOCL 4528	Computers and Society

D'Amore-McKim School of Business:

ACCT 3403	Accounting Information Systems
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets
ENTR 4501	Business Planning for Technology Ventures
FINA 4608	Advanced Financial Strategy
MISM 2301	Management Information Systems
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
INSH 2104	Statistics in the Social and Political World
MATH 2280	Statistics and Software
MATH 2285	Introduction to Multisample Statistics
MATH 3081	Probability and Statistics
MATH 4581	Statistics and Stochastic Processes
MATH 5104	Basics and Probability and Statistics
MATH 5105	Basics of Statistics and Stochastic Processes
ME 2315	Statistical and Economical Analyses in Engineering
MGSC 2301	Business Statistics
PHMD 3450	Research Methodology and Biostatistics
PHTH 2210	Foundations of Biostatistics
PPUA 6301	Introduction to Computational Statistics
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)**

- Bachelor of Science in Information Science (p. 268)

Minor

- Information Science (p. 270)

Information Science, BSIS**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Common Computer and Information Science Curriculum**Computer Science Overview**

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

Computer Science Fundamental Courses

A grade of C– is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
CS 4800	Algorithms and Data	4

Computing and Social Issues

Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

Common Information Science Curriculum

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 and Electives

Complete one of the following concentrations:

Concentrations

<i>Concentration in Information Systems Management</i>		
Complete three of the following:		12
IS 4500	Software Quality Assurance	
IS 4600	Software Project Management	
CS 4500	Software Development	
CS 4550	Web Development	
MISM 4501	Business Systems Integration	

ORGB 3201	Organizational Behavior	
or ORGB 3209	Organizational Behavior	
<i>Concentration in Human Computer Interaction</i>		

Complete three of the following: 12

PSYC 3466	Cognition	
CS 4100	Artificial Intelligence	
CS 4500	Software Development	
CS 4520	Mobile Application Development	
CS 4550	Web Development	
CS 6120	Natural Language Processing	

Concentration in Research and Data Analysis

Complete three of the following: 12

IS 4200	Information Retrieval	
IS 4700	Social Information Systems	
CS 4100	Artificial Intelligence	
CS 4500	Software Development	
CS 6120	Natural Language Processing	

Computer Science or Information Science Elective

Complete one CS or IS elective that is not already required from the following list:		4
CS 2500 to CS 5999 but not CS 5010		
IS 2000 to IS 5999		

Computer Science English Requirement

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 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

133 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
CS 1200	1 CS 2510	4 Vacation	0 Vacation	0
CS 1800	4 CS 2511	1		
CS 1801	0 CS 2800	4		
CS 2500	4 CS 2801	1		
CS 2501	1 ECON 2350	4		
ENGW 1111	4 Elective	4		
PSYC 1101	4			
18		18	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 3200	4 IS 4300	4		
CS 3500	4 CS 4800	4		
Elective	4 CS 3650	4		
	CS 1210	1		
	16	17	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CS 3700	4 Elective	4 Co-op	0
	IS 4800	4 Elective	4	
	IS concentration elective	4		
	Elective	4		
	0	16	8	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 ENGW 3302	4 Elective	4 Co-op	0
	SOCL 4528	4 Elective	4	
	IS concentration elective	4		
	Elective	4		
	0	16	8	0

Year 5		
Fall	Hours Spring	Hours
Co-op	0 IS 4900	5
	IS concentration elective	4
	Elective	4
	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
CS 1200	1 CS 2510	4 Vacation	0 Vacation	0
CS 1800	4 CS 2511	1		
CS 1801	0 CS 2800	4		
CS 2500	4 CS 2801	1		
CS 2501	1 ECON 2350	4		
ENGW 1111	4 Elective	4		
PSYC 1101	4			
	18	18	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
IS 2000	4 Co-op	0 Co-op	0 Vacation	0
CS 3200	4			
CS 3500	4			

CS 1210	1			
Elective	4			
	17	0	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
IS 3500	4 Co-op	0 Co-op	0 Elective	4
IS 4300	4		Elective	4
CS 4800	4			
CS 3650	4			
	16	0	0	8

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
IS 4800	4 Co-op	0 Co-op	0 Elective	4
CS 3700	4		Elective	4
IS concentration elective	4			
Elective	4			
	16	0	0	8

Year 5		
Fall	Hours Spring	Hours
ENGW 3302	4 IS 4900	5
SOCL 4528	4 IS concentration elective	4
IS concentration elective	4 IS concentration elective	4
Elective	4 Elective	4
	16	17

Total Hours: 134

Information Science, Minor

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

Required Courses

CS 2500 and CS 2501	Fundamentals of Computer Science 1 and Lab for CS 2500 (A grade of C- or higher is required)	5
CS 2510 and CS 2511	Fundamentals of Computer Science 2 and Lab for CS 2510 (A grade of C- or higher is required)	5
IS 2000	Principles of Information Science	4

Information Science Electives

Complete two from the following:	8
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 pre-approved 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.

Bouve 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 2200	Interactive Narrative
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 3352	Interaction Design Basics
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	Information Design Research Methods
COMM 2105	Social Networks
GAME 4355	Game Scripting
JRNL 3610	Digital Storytelling and Social Media
JRNL 3615	Advanced Digital Storytelling
JRNL 5214	The Online Newsroom Experience
MSCR 2500	Digital Media Research
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
IE 4615	Expert Systems and Neural Networks

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 3302	Introduction to Remote Sensing
ENVR 4563	Advanced Spatial Analysis
LING 3450	Syntax
LING 3452	Semantics
MATH 1260	Math Fundamentals for Games
MATH 2250	Programming Skills for Mathematics
MATH 2331	Linear Algebra
MATH 2341	Differential Equations and Linear Algebra for Engineering
MATH 3530	Numerical Analysis
MATH 4535	Mathematical Topics in Computer Vision
MATH 4606	Mathematical and Computational Methods for Physics
PHYS 1130	Computing, Data, and Science
PHYS 4606	Mathematical and Computational Methods for Physics
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 1250	Game Theory in the Social Sciences
ECON 3560	Applied Econometrics
ECON 4653	Mathematics for Economics
ENGL 3340	Technologies of Text
PHIL 1105	Science and Pseudoscience
PHIL 1114	Reason, Risk, and Evidence
PHIL 1115	Introduction to Logic
PHIL 1145	Technology and Human Values
PHIL 1215	Symbolic Logic
PHIL 2001	Ethics and Evolutionary Games
PHIL 4510	Philosophy of Science
PHIL 4515	Advanced Logic
PHIL 4520	Philosophy of Logic
PPUA 6302	Information Design and Visual Analytics
SOCL 3485	Environment, Technology, and Society
SOCL 4528	Computers and Society

D'Amore-McKim School of Business:

ACCT 3403	Accounting Information Systems
-----------	--------------------------------

ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets
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
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
INSH 2104	Statistics in the Social and Political World
MATH 2280	Statistics and Software
MATH 2285	Introduction to Multisample Statistics
MATH 3081	Probability and Statistics
MATH 4581	Statistics and Stochastic Processes
MATH 5104	Basics and Probability and Statistics
MATH 5105	Basics of Statistics and Stochastic Processes
ME 2315	Statistical and Economical Analyses in Engineering
MGSC 2301	Business Statistics
PHMD 3450	Research Methodology and Biostatistics
PTHH 2210	Foundations of Biostatistics
POLS 2400	Quantitative Techniques
PPUA 6301	Introduction to Computational Statistics
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 BS 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.
2. The convergence of programming, statistics, artificial intelligence, and visualization as complementary tools for the analysis and understanding of data.

Programs

- Data Science, BS (p. 272)

Data Science, BS

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Major Requirements

Computer Science Overview

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

Computer Science Foundations Courses

A grade of C– or higher is required in CS 2500, CS 2510, and CS 1800:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3520	Programming in C++	4
CS 4000	Senior Seminar	1

Information Science Foundations

IS 2000	Principles of Information Science	4
CS 3200	Database Design	4

Mathematics and Statistics Foundations

MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4

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 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
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 or CS 6200	Information Retrieval
IS 4300	Human Computer Interaction
IS 4700 or CS 5750	Social Information Systems Social Computing
IS 4800 or CS 6350	Empirical Research Methods Empirical Research Methods
CS 3740	Systems Security
CS 4100 or CS 5100	Artificial Intelligence Foundations of Artificial Intelligence
CS 4120 or CS 6120	Natural Language Processing Natural Language Processing
CS 4240 or CS 6240	Large-Scale Parallel Data Processing Parallel Data Processing in MapReduce
CS 4500 or CS 5500	Software Development Managing Software Development
CS 4550 or CS 5610	Web Development Web Development
CS 4650 or CS 5650	High Performance Computing High Performance Computing
CS 4800 or CS 5800	Algorithms and Data Algorithms
CS 6110	Knowledge-Based Systems
CS 6140	Machine Learning
CS 6220	Data Mining Techniques

Category B: Data-Science-Related Electives in Other Units¹

ARTG 3451	Information Design 1
ARTG 4552	Information Design 2
ARTG 5100	Information Design Studio 1—Principles
ARTG 5110	Information Design History
ARTG 5120	Information Design Research Methods
ARTG 5330	Visualization Technologies
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
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	Game Analytics
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 5050	Data Mining in Cyberspace
IA 5200	Security Risk Management and Assessment
IE 4615	Expert Systems and Neural Networks
IE 5640	Data Mining for Engineering Applications
ECON 2350	Statistics
ECON 3560	Applied Econometrics
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
PPUA 6301	Introduction to Computational Statistics
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 English Requirement**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 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

Five Years, Three Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 2500	4	CS 2510	4	Vacation		Vacation	
CS 2501	1	CS 2511	1				
CS 1800	4	IS 2000	4				
CS 1801	0	MATH 1342	4				
CS 1200	1	Elective	4				
MATH 1341	4						
ENGW 1111	4						
	18		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				
	0		16		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		CS 4000	1
		DS 4900	4

DS-related elective 4

DS-related elective 4

Elective 4

0 17

Total Hours: 133

Computer and Information Science Combined Majors

The college offers combined majors with business administration, cognitive psychology, biology, mathematics, physics, environmental science, game development, interactive media, digital art, linguistics, communications, music composition and technology, and journalism, as well as a combined major in computer science and information science. Each of the combined majors offers the opportunity for intense study in two disciplines with appropriate breadth in the liberal arts. Students take nine to thirteen courses in each discipline (or a related discipline) and at least one integrative course that binds the disciplines together. These programs offer an excellent educational opportunity for the ambitious student.

Programs

Bachelor of Science (BS)

- Computer Science and Information Science (p. 275)
- Computer Science and Biology (p. 279)
- Computer Science and Business Administration (p. 281)
- Computer Science and Cognitive Psychology (p. 285)
- Computer Science and Communication Studies (p. 288)
- Computer Science and Criminal Justice (p. 290)
- Computer Science and Design (<http://catalog.northeastern.edu/undergraduate/computer-information-science/computer-information-science-combined-majors/computer-science-design-bs>)
- Computer Science and Digital Art (p. 293)
- Computer Science and English (p. 295)
- Computer Science and Environmental Science (p. 298)
- Computer Science and Game Development (p. 300)
- Computer Science and History (p. 302)
- Computer Science and Interactive Media (p. 306)
- Computer Science and Journalism (p. 309)
- Computer Science and Linguistics (p. 310)
- Computer Science and Mathematics (p. 312)
- Computer Science and Music with Concentration in Music Composition and Technology (p. 316)
- Computer Science and Philosophy (p. 318)
- Computer Science and Physics (p. 320)
- Computer Science and Sociology (p. 322)
- Information Science and Business Administration (p. 325)
- Information Science and Cognitive Psychology (p. 329)
- Information Science and Environmental Science (p. 331)
- Information Science and Journalism (p. 333)

Bachelor of Science in Computer Engineering (BSCompE)

- Computer Engineering and Computer Science (p. 276)

Dual Degree

- Computer Science and Mathematics, BS/MS (p. 314)

Computer Science and Information 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.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Computer Science Overview

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

Computer Science Fundamental Courses

A grade of C– or higher is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 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	Software Development	4
CS 4800	Algorithms and Data	4

Information Science Courses

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:		
PHIL 1145	Technology and Human Values	4

SOCL 1280	The Twenty-First-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

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Psychology

PSYC 1101	Foundations of Psychology	4
-----------	---------------------------	---

Mathematics and Statistics Requirements

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 English Requirement

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

Complete seven general electives.

Program Requirement

133 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
CS 1800	4 CS 2510	4 Vacation	0 Vacation	0
CS 1801	0 CS 2511	1		
CS 2500	4 CS 2800	4		
CS 2501	1 CS 2801	1		
CS 1200	1 ECON 2350	4		
ENGW 1111	4 Elective	4		
Elective	4			
		18	18	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
IS 2000	4 IS 4300	4 Vacation	0 Co-op	0
CS 3200	4 CS 3650	4		
CS 3500	4 CS 4800	4		

MATH 1341	4	MATH 1342	4		
		CS 1210	1		
	16		17	0	0
Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
Co-op	0 IS 3500	4 MATH 2331	4 Co-op	0	
	CS 3700	4 Elective	4		
	IS 4800	4			
	Elective	4			
	0	16	8	0	
Year 4					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
Co-op	0 CS 4400	4 Elective	4 Co-op	0	
	ENGW 3302	4 Elective	4		
	CS 3800	4			
	Elective	4			
	0	16	8	0	
Year 5					
Fall	Hours Spring	Hours			
Co-op	0 IS 4900	5			
	SOCL 4528	4			
	CS 4500	4			
	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	
ENGW 1111	4 CS 2510	4 Vacation	0 Vacation	0	
CS 1801	0 CS 2511	1			
CS 2500	4 CS 2800	4			
CS 2501	1 CS 2801	1			
CS 1800	4 ECON 2350	4			
CS 1200	1 Elective	4			
Elective	4				
	18	18	0	0	
Year 2					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
IS 2000	4 Co-op	0 Co-op	0 Vacation	0	
CS 3500	4				
CS 3200	4				
MATH 1341	4				
CS 1210	1				
	17	0	0	0	
Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
IS 4300	4 Co-op	0 Co-op	0 MATH 2331	4	
CS 4800	4		Elective	4	
CS 3650	4				

MATH 1342	4				
	16	0	0	8	
Year 4					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
IS 3500	4 Co-op	0 Co-op	0 Elective	4	
CS 3700	4		Elective	4	
IS 4800	4				
Elective	4				
	16	0	0	8	
Year 5					
Fall	Hours Spring	Hours			
CS 3800	4 IS 4900	5			
CS 4400	4 SOCL 4528	4			
ENGW 3302	4 CS 4500	4			
Elective	4 Elective	4			
	16	17			

Total Hours: 134

Computer Engineering and Computer Science, BSCompE

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA in EECE 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 1801	Discrete Structures and Recitation for CS 1800	4
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
---------	------------------------------

Engineering

Complete 48 semester hours in engineering as indicated below.

Code	Title	Hours
------	-------	-------

Required Courses

EECE 2150 and EECE 2151	Circuits and Signals: Biomedical Applications and Lab for EECE 2150	5
----------------------------	---------------------------------------------------------------------------	---

EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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

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 Elective

Complete two of the following: 8

EECE 3154	Hyperspectral Imaging in an International Context
-----------	------------------------------------------------------

EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530
----------------------------	-----------------------------------------------------------

EECE 2750	Enabling Engineering
-----------	----------------------

EECE 4993	Independent Study
-----------	-------------------

GE 4608	Nanotechnology in Engineering
---------	-------------------------------

EECE 2412 to EECE 2530

EECE 5576 to EECE 5698

EECE 3324 to EECE 4698

ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage
-----------	------------------------------------------------------------------

One CS course from the following approved list may be taken toward the EECE technical elective requirement:

CS 3200	Database Design
---------	-----------------

CS 3540	Game Programming
---------	------------------

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

CS 5010 to CS 5610

CS 5650 to CS 5850

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
---------	------------------------------

2 semester hours from the following course count toward the engineering requirement: 2

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 3700	Networks and Distributed Systems	4
---------	----------------------------------	---

CS 4500	Software Development	4
---------	----------------------	---

CS 4800	Algorithms and Data	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 each of the following courses will apply to the professional development area: 1

GE 1501	Cornerstone of Engineering 1
---------	------------------------------

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

Complete two academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

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

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

138 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
CHEM 1151	4 PHYS 1151	3		
CHEM 1153	0 PHYS 1152	1		
GE 1000	1 PHYS 1153	1		
GE 1110	4 GE 1111	4		
Elective	4 ENGW 1111	4		
	17	17	0	0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MATH 2341	4 EECE 2160	3 Vacation	0 Co-op	0
PHYS 1155	3 EECE 2161	1		
PHYS 1156	1 CS 2510	4		
PHYS 1157	1 CS 2511	1		
CS 2500	4 CS 2800	4		
CS 2501	1 CS 2801	1		
CS 1800	4 Elective	4		

CS 1801	0 EECE 2000	1		
	18	19	0	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 EECE 2150	4 ENGW 3302	4 Co-op	0
	EECE 2151	1 CS 3500	4	
	CE fundamental course	5		
	CE fundamental course	5		
	CS 3650	4		
	0	19	8	0
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 EECE 3000	1 EECE 4790	4 Co-op	0
	CE fundamental course	5 CS 4800	4	
	EE fundamental course	5		
	MATH 3081	4		
	CS 3700	4		
	0	19	8	0
Year 5				
Fall	Hours Spring	Hours		
Co-op	0 EECE 4792	4		
	EECE technical elective	4		
	EECE technical elective	4		
	CS 4500	4		
	0	16		

Total Hours: 141

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

Year 1				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MATH 1341	4 MATH 1342	4 Vacation	0 Vacation	0
CHEM 1151	4 PHYS 1151	3		
CHEM 1153	0 PHYS 1152	1		
GE 1000	1 PHYS 1153	1		
GE 1110	4 GE 1111	4		
Elective	4 ENGW 1111	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	3			
PHYS 1156	1			
PHYS 1157	1			

CS 2500	4
CS 2501	1
CS 1800	4
CS 1801	0
EECE 2000	1
	19
	0
	0
	0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EECE 2150	4	Co-op	0	Co-op	0	ENGW 3302	4
EECE 2151	1					MATH 3081	4
EECE 2160	3						
EECE 2161	1						
CS 2510	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	4
CE fundamental course	5					CS 4800	4
CE fundamental course	5						
CS 3500	4						
CS 3650	4						
	19		0		0		8

Year 5

Fall	Hours	Spring	Hours
EECE 4792	4	Elective	4
CE fundamental course	5	EECE technical elective	4
EE fundamental course	5	EECE technical elective	4
CS 3700	4	CS 4500	4
	18		16

Total Hours: 141

Computer Science and Biology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
------	-------	-------

Computer Science Overview		2
----------------------------------	--	---

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

Computer Science Fundamental Courses

A grade of C- or higher is required in each course:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation (integrative course)	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data (integrative course)	4

Senior Seminar

CS 4000	Senior Seminar	1
---------	----------------	---

¹ Students entering through the biology department may take BIOL 1000.

² Students entering through the biology department may take 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
-------------------------	------------------------------------------------------	---

Techniques in Biology

BIOL 2309	Techniques in Biology: An Inquiry-Based Lab	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
---------------------------------------------	------------------------------------------------------------------------------	---

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 2323 and BIOL 2324	and	
----------------------------	-----	--

EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
----------------------------	----------------------------------	--

EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
----------------------------	-----------------------------------------------	--

EEMB 2618 and EEMB 2619	Vertebrate Zoology and Lab for EEMB 2618	
----------------------------	---------------------------------------------	--

EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
----------------------------	-----------------------------------------	--

Choose the second elective from the following list: 4-5
BIOL 2311 or above

Biology Integrative Course

Complete one of the following: 4-5

BINF 6308	Bioinformatics Computational Methods 1	
-----------	----------------------------------------	--

BIOL 3407	Molecular Cell Biology	
-----------	------------------------	--

BIOL 3603	Mammalian Systems Physiology	
-----------	------------------------------	--

BIOL 5581	Biological Imaging	
-----------	--------------------	--

BIOL 5587	Comparative Neurobiology	
-----------	--------------------------	--

EEMB 5530 and EEMB 5531	Molecular Ecology and Evolution and Lab for EEMB 5530	
----------------------------	----------------------------------------------------------	--

EEMB 5548	Sociobiology	
-----------	--------------	--

Mathematics Requirements

Complete two calculus courses with a grade of C– or higher, and complete one probability and statistics course:

Code	Title	Hours
------	-------	-------

Calculus

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 Requirement

Code	Title	Hours
Complete one of the following: 4		
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	

English 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	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses.

Required General Electives

Complete five general electives.

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- 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

140 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
CS 1800	4	CS 2510	4	Vacation	0	Vacation	0
CS 1801	0	CS 2511	1				
CS 2500	4	BIOL 2299	4				
CS 2501	1	CHEM 1214	4				
BIOL 1107	4	CHEM 1215	1				
BIOL 1108	1	CHEM 1216	0				
CHEM 1211	4	ENGW 1111	4				
CHEM 1212	1						
CHEM 1213	0						
CS 1200	1						
	20		18		0		0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800	4 CS 4800	4 Vacation	0 Co-op	0
CS 2801	1 BIOL 2309	4		
CS 3500	4 CHEM 2313	4		
CHEM 2311	4 CHEM 2314	1		
CHEM 2312	1 MATH 1251	4		
BIOL 2301	4 CS 1210	1		
BIOL 2302	1			
	19	18	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
	BIOL undergraduate elective	5 Elective	4	
	MATH 1252	4		
	Elective	4		
	0	17	8	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CS 3200	4 Elective	4 Co-op	0
	BIOL undergraduate elective	5 Elective	4	
	MATH 3081	4		
	SOCL 4528	4		
	0	17	8	0

Year 5		
Fall	Hours Spring	Hours
Co-op	0 CS 4500	4
	CS 4000	1
	BIOL undergraduate elective	5
	BIOL 4701	4
	Elective	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
CS 1800	4 CS 2510	4 Vacation	0 Vacation	0
CS 1801	0 CS 2511	1		
CS 2500	4 BIOL 2299	4		
CS 2501	1 CHEM 1214	4		
BIOL 1107	4 CHEM 1215	1		
BIOL 1108	1 CHEM 1216	0		
CHEM 1211	4 ENGW 1111	4		
CHEM 1212	1			
CHEM 1213	0			

CS 1200	1			
	20	18	0	0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
BIOL 2301	4 Co-op	0 Co-op	0 Vacation	0
BIOL 2302	1			
CHEM 2311	4			
CHEM 2312	1			
CS 2800	4			
CS 2801	1			
CS 3500	4			
CS 1210	1			
	20	0	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 4800	4 Co-op	0 Co-op	0 Elective	4
BIOL 2309	4		ENGW 3302	4
CHEM 2313	4			
CHEM 2314	1			
MATH 1251	4			
	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
BIOL undergraduate elective	5		Elective	4
MATH 1252	4			
Elective	4			
	17	0	0	8

Year 5		
Fall	Hours Spring	Hours
CS 3200	4 CS 4500	4
MATH 3081	4 CS 4000	1
BIOL undergraduate elective	5 BIOL 4701	4
SOCL 4528	4 BIOL undergraduate elective	5
	Elective	4
	17	18

Total Hours: 143

Computer Science and Business Administration, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
------	-------	-------

Computer Science Overview

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

Computer Science Fundamental Courses

A grade of C- or higher is required in Computer Science Fundamental Courses.

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 3650	Computer Systems	4
CS 3700	Networks and Distributed Systems	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

Upper Division CS/IS Elective

With advisor approval, a directed study, project study, or appropriate graduate-level course may also be taken as a computer science elective.

Complete one course in the following ranges:	4
CS 2600 to CS 7999 but not CS 5010	
IS 2000 to IS 7999 but not IS 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	<i>Business Statistics</i>	4
Choose one of the following: ¹	4	
STRT 4501	Strategy in Action	
STRT 4514	Internal Case Competition Challenge	

STRT 4516 External Case Competition Challenge

- ¹ Strategy in Action (STRT 4501), Internal Case Competition Challenge (STRT 4514) and External Case Competition Challenge (STRT 4516) all satisfy the Capstone Requirement.

Business Concentration

Complete a four-course business concentration from the following list. Requirements for the concentrations are listed below (p. 283).

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Marketing
- Supply Chain Management

Information Resource Management

Code	Title	Hours
------	-------	-------

Information Resource Management

MISM 3305	Information Resource Management (integrative course)	4
-----------	------------------------------------------------------	---

Mathematics and Economics Requirements

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

Code	Title	Hours
------	-------	-------

Complete one of the following:

PHIL 1145	Technology and Human Values	4
SOCL 1280	The Twenty-First-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	

Computer Science English Requirement

Note: 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).

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 three general electives.		
		12

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
- 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	
Electives		
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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		

FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		

MKTG 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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

Five Years, Three Co-ops in Summer 2/Fall

Year 1				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 1800	4 CS 2510	4 Vacation	0 Vacation	0
CS 1801	0 CS 2511	1		
CS 2500	4 CS 2800	4		
CS 2501	1 CS 2801	1		
CS 1200	1 Elective	4		
ECON 1115	4 ECON 1116	4		
ENGW 1111	4			
18		18	0	0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 CS 4800	4 Vacation	0 Co-op	0
MATH 1341	4 CS 3200	4		
ACCT 1201	4 ACCT 2301	4		
MGSC 2301	4 FINA 2201	4		
	CS 1210	1		
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

MISM 3305	4	MKTG 2201	4
Business elective	4		
ENGW 3302	4		
0	16	8	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 Business elective	4 Elective	4 Co-op	0
	CS 3700	4 Elective	4	
	Business elective	4		
	CS undergraduat elective	4		
0	16	8	0	0

Year 5

Fall	Hours Spring	Hours
Co-op	0 STRT 4501	4
	Business elective	4
	CS 4500	4
	CS 4000	1
	SOCL 4528	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
CS 1800	4 CS 2510	4 Vacation	0 Vacation	0
CS 1801	0 CS 2511	1		
CS 2500	4 CS 2800	4		
CS 2501	1 CS 2801	1		
CS 1200	1 Elective	4		
ECON 1115	4 ECON 1116	4		
ENGW 1111	4			
18	18	0	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	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 4800	4 Co-op	0 Co-op	0 ORGB 3201	4
CS 3200	4		MKTG 2201	4
ACCT 2301	4			
FINA 2201	4			
16	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
MISM 3305	4		Elective	4
Business elective	4			
ENGW 3302	4			
16	0	0	8	

Year 5

Fall	Hours Spring	Hours
CS undergraduate elective	4 STRT 4501	4
Business elective	4 SOCL 4528	4
Business elective	4 CS 4500	4
CS 3700	4 Business elective	4
	CS 4000	1
16	17	

Total Hours: 134

Computer Science and Cognitive Psychology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C- or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4
CS 4100	Artificial Intelligence (Integrative course)	4
CS 4500	Software Development (Integrative course)	4
CS 4800	Algorithms and Data	4
IS 4300	Human Computer Interaction (Integrative course)	4

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

Computer Science Elective Courses

With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as computer science electives.

Complete two courses from the following ranges:	8
CS 2600 to CS 7999 but not CS 5010	
IS 2000 to IS 7999 but not IS 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 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 4522	Psychology of Reading	
PSYC 4524	Cognitive Development	

PSYC 4526	Categorization and Reasoning	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4652	Seminar in Ethics in Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	
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	

Additional Requirement

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

Code	Title	Hours
Complete one of the following:		
PHIL 1145	Technology and Human Values	4
SOCL 1280	The Twenty-First-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	

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 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

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	Vacation	0	Vacation	0
CS 1800	4	CS 2511	1				
CS 1801	0	CS 2800	4				
CS 2500	4	CS 2801	1				
CS 2501	1	PSYC 3466	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4						
		18		18		0	
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 4800	4	Vacation	0	Co-op	0
MATH 1341	4	PSYC 3464	4				
PSYC 2320	4	PSYC 3452	4				
Elective	4	CS 1210	1				
		Elective	4				
		16		17		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 undergraduate elective	4				
		CS undergraduate elective	4				
		0		16		8	
Year 4							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4100	4	Elective	4	Co-op	0
		CS undergraduate elective	4	Elective	4		
		PSYC lab elective	4				
		PSYC undergraduate elective	4				
		0		16		8	
Year 5							
Fall	Hours	Spring	Hours				
Co-op	0	CS 4000	1				

CS 4500	4
SOCL 4528	4
PSYC seminar	4
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
CS 1800	4	CS 2510	4	Vacation	0	Vacation	0
CS 1801	0	CS 2511	1				
CS 2500	4	CS 2800	4				
CS 2501	1	CS 2801	1				
PSYC 1101	4	PSYC 3466	4				
ENGW 1111	4	Elective	4				
CS 1200	1						
		18		18		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	
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 4800	4	Co-op	0	Co-op	0	Elective	4
PSYC 3464	4					Elective	4
PSYC 3452	4						
Elective	4						
		16		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 undergraduate elective	4						
CS undergraduate elective	4						
		16		0		8	
Year 5							
Fall	Hours	Spring	Hours				
CS 4100	4	CS 4500	4				
CS undergraduate elective	4	CS 4000	1				
PSYC lab elective	4	SOCL 4528	4				

PSYC undergraduate elective	4 PSYC seminar	4
	Elective	4
		16
		17

Total Hours: 134

Computer Science and Communication Studies, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
Computer Science Fundamental Courses		
A grade of C– or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 Requirements		
CS 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500	Software Development	4
CS 4550	Web Development	4
CS 4800	Algorithms and Data	4
Computer Science Senior Seminar		
CS 4000 or THTR 1170	Senior Seminar The Eloquent Presenter	1
Computer Science Elective Courses		
Complete two courses from the following ranges:		8
IS 2000 to IS 5999 but not IS 4900		
CS 2600 to CS 5999 but not CS 5010		
Co-op Preparation		
CS 1210 or EEAM 2000	Computer Science/Information Science Overview 2: Co-op Preparation Professional Development for Co-op	1

Mathematics Requirement

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	4

Communication Studies Courses

Code	Title	Hours
Communication Studies Common Requirements		
COMM 1101	Introduction to Communication Studies	4
COMM 1112 or COMM 2301	Public Speaking 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	
COMM 1310	Classical Foundations of Communication	
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 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3304	Communication and Inclusion	
COMM 3320	Political Communication	
COMM 3331	Argumentation and Debate	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3500	Environmental Issues, Communication, and the Media	
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 4131	Sex and Interpersonal Communication	
COMM 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4535	Nonverbal Social Interaction	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4605	Youth and Communication Technology	
COMM 4631	Crisis Communication and Image Management	
COMM 4901	Seminar in Communications	
COMM 4918	Special Topics in Communication Studies	

Communication Studies Electives

Complete three courses from the following range: ¹ 12
 COMM 1131 to COMM 4996

¹ Special Topics in Communication Studies (COMM 4912), Junior/Senior Honors Project 1 (COMM 4970), Junior/Senior Honors Project 2 (COMM 4971), and Research (COMM 4991) are excluded.

Writing Requirements

Code	Title	Hours
College Writing		
ENGW 1111	First-Year Writing	4
Advanced Writing in the Disciplines		
Choose 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.

Computing and Social Issues

Code	Title	Hours
Complete one of the following: 4		
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

Required General Electives

Code	Title	Hours
Complete eight general electives.		32

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Interpreting Culture
- 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.

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

134 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	1	CS 2510	4	Vacation	0	Vacation	0
CS 1800	4	CS 2511	1				
CS 1801	0	CS 2800	4				
CS 2500	4	CS 2801	1				
CS 2501	1	COMM 1112 or 2301	4				
ENGW 1111	4	Elective	4				
COMM 1101	4						
		18		18		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	
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3200	4	Co-op	0	Co-op	0	Elective	4
CS 4800	4					Elective	4
Communication studies cluster course	4						
Communication studies writing-intensive course	4						
		16		0		0	
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
Computer science elective	4						
Elective	4						
		16		0		0	

Year 5

Fall	Hours	Spring	Hours
Communication studies writing-intensive course	4	CS 4000	1
Communication studies elective	4	CS 4500	4
Computer science elective	4	CS 4550	4
Computing and social issues	4	Communication studies elective	4
		Elective	4
	16		17

Total Hours: 134

Computer Science 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1

Computer Science Fundamental Courses		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	4
IS 2000	Principles of Information Science	4

Co-op Preparation Requirement		
Complete one of the following consistent with your major:		1

CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	
or CRIM 2000	Co-op Integration Seminar 1	

Computer Science Elective Courses		
Complete three upper-division computer science courses from the following ranges:		12
CS 2500 to CS 7999, but not CS 5010		
IS 2000 to IS 7999, but not IS 4900		
DS 2000 to DS 7999, but not DS 4900		

Presentation Requirement		
THTR 1170	The Eloquent Presenter	1

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 Electives		
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	
Complete one course from the following:		4
CRIM 3010	Criminal Violence	
CRIM 3020	Victims of Crime	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Juvenile Justice	
CRIM 3300	Corrections	
CRIM 3400	Security	
CRIM 3500	Policing	
CRIM 3900	Topics in Criminal Justice and Criminology	

Complete one course from the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4030	Criminal Justice Organization and Management	

Complete one additional CRIM Elective		4
Criminal Justice Required Capstone		
CRIM 4949	Senior Capstone Seminar	4

Integrative Course Requirement

Code	Title	Hours
Complete one course from the following:		
CRIM 4040	Crime Prevention	
CRIM 4630	Political Crime and Terrorism	
CRIM 4640	Corporate and White-Collar Crime	
CRIM 4800	Crime Mapping	

CRIM 4900	Advanced Seminar in Criminology and Criminal Justice
-----------	------------------------------------------------------

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

CCIS Computing and Social Issues

Code	Title	Hours
Complete one of the following: 4		
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The Twenty-First-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

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 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

Note: CCIS intentionally makes the total credits required one less than the sum of the credits to allow for a one credit waiver if needed.

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 1800 and CS 1801	4	CS 2510 and CS 2511	5	CS 3200	4	Vacation	4
CS 2500 and CS 2501	5	IS 2000	4	CS 3500	4		
CS 1200	1	CRIM 2100	4				
ENGW 1111	4	CRIM 2200	4				
CRIM 1100	4						
		18		17		8	
						0	

Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 2800 and CS 2801	5	CS 1210 or CRIM 2000	1	ENGW 3302, 3308, or 3315	4	Co-op	4
CS 4800	4	CS Elective 1	4	Elective	4		
CRIM 3600	4	CRIM 3700	4				
CRIM Elective 1	4	CRIM Elective 2	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	4
		CRIM Elective 3	4	Elective	4		
		CRIM Elective 4	4				
		SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4				
		THTR 1170	1				
		0		17		8	
						0	

Year 4							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS Elective 3	4	Elective (if needed)	4		
		CRIM 4949	4	Elective (if needed)	4		
		CRIM 4040, 4630, 4640, 4800, or 4900	4				
		Elective	4				
		0		16		8	

Total Hours: 134

Four Years, 2 Co-ops in Spring/Summer 1

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1801	4	CS 2510 and CS 2511	5	CS 3200	4	Vacation	4

CS 2500 and CS 2501	5 IS 2000	4 CS 3500	4
CS 1200	1 CRIM 2100	4	
ENGW 1111	4 CRIM 2200	4	
CRIM 1100	4		
	18	17	8

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 2800 and CS 2801	5		Elective	4
CS 4800	4			
CRIM 3600	4			
CRIM Elective 1	4			
	18	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

CRIM Elective 2	4			
Elective	4			
THTR 1170	1			
	17	0	0	8

Year 4

Fall	Hours Spring	Hours Summer 1	Hours
CS Elective 2	4 CS Elective 3	4 Elective (if needed)	4

CRIM Elective 3	4 CRIM 4949	4 Elective (if needed)	4
CRIM Elective 4	4 CRIM 4040, 4630, 4640, 4800, or 4900	4	

SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4 Elective	4	
	16	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 1801	4 CS 2510 and CS 2511	5 Vacation	Vacation	

CS 2500 and CS 2501	5 IS 2000	4		
CS 1200	1 CRIM 2100	4		
ENGW 1111	4 CRIM 2200	4		
CRIM 1100	4			
	18	17	0	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3200	4 CS 1210 or CRIM 2000	1 Vacation	Co-op	

CS 3500	4 CS 2800 and CS 2801	5		
CS 4800	4 CRIM 3700	4		
CRIM 3600	4 CRIM Elective 1	4		
	CRIM Elective 2	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, or 3315	4 Co-op	

	CRIM Elective 3	4 Elective	4	
	SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	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	

	CRIM Elective 4	4 Elective	4	
	CRIM 4040, 4630, 4640, 4800, or 4900	4		
	Elective	4		
	0	16	8	0

Year 5

Fall	Hours Spring	Hours
Co-op	CS Elective 3	4
	CRIM 4949	4
	Elective	4
	Elective	4
	0	16

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 1800 and CS 1801	4 CS 2510 and CS 2511	5 Vacation	Vacation	

CS 2500 and CS 2501	5 IS 2000	4		
CS 1200	1 CRIM 2100	4		
ENGW 1111	4 CRIM 2200	4		

CRIM 1100	4				
	18	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 3200	4				
CS 3500	4				
CS 4800	4				
CRIM 3600	4				
	17	0	0	0	
Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
CS 2800 and CS 2801	5 Co-op	Co-op	ENGW 3302, 3308, or 3315	4	
CRIM 3700	4		Elective	4	
CRIM Elective 1	4				
CRIM Elective 2	4				
THTR 1170	1				
	18	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	
CRIM Elective 3	4		Elective	4	
SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4				
Elective	4				
	16	0	0	8	
Year 5					
Fall	Hours Spring	Hours			
CS Elective 2	4 CS Elective 3	4			
CRIM Elective 4	4 CRIM 4949	4			
CRIM 4040, 4630, 4640, 4800, or 4900	4 Elective	4			
Elective	4 Elective	4			
	16	16			

Total Hours: 134

Computer Science and Digital Art, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
------	-------	-------

Computer Science Overview

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

Computer Science Fundamental Courses

A grade of C- or higher is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4300	Computer Graphics	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4
IS 4300	Human Computer Interaction	4

Computer Science Senior Seminar

CS 4000 or THTR 1170	Senior Seminar The Eloquent Presenter	1
----------------------	------------------------------------------	---

Computer Science Elective Courses

Complete two courses from the following ranges:	8
CS 2600 to CS 7999 but not CS 5010	
IS 2000 to IS 7999 but not IS 4900	

Digital Art Courses

Code	Title	Hours
------	-------	-------

Required Digital Art Courses

ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	5

Digital Art Electives

Complete five of the following: 20-23

Basics

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools
ARTD 2380 and ARTD 2381	Video Basics and Video Tools

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 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
ARTD 4682	Video in Context: Video and Social Change

History

ARTH 2212	Survey of the Still and Moving Image
-----------	--------------------------------------

Digital Art Capstone Requirement

ARTD 4530	Media Arts Degree Project 1	4
ARTD 4670	Media Arts Degree Project 2	4

Major Requirements

Code	Title	Hours
PSYC 1101	Foundations of Psychology	4
MATH 2331	Linear Algebra	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following: 4		
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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 four general electives.		16

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- Exploring Creative Expression and Innovation
- 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
- 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

137 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
CS 1200	1	CS 2510	4	Vacation	0
CS 1800	4	CS 2511	1		
CS 1801	0	CS 2800	4		
CS 2500	4	CS 2801	1		
CS 2501	1	ARTF 1124	4		
ARTF 1122	4	ARTF 1125	1		
ARTF 1123	1	PSYC 1101	4		
ENGW 1111	4				
		19		19	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 3500	4	CS 4800	4	Vacation	0
CS 3200	4	Digital art elective	4		
ARTF 2220	4	Digital art elective	4		
ARTF 2221	1	IS 4300	4		
ARTF 2223	4				
ARTF 2224	1				
		18		16	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 1210	1 Co-op	0 Co-op	0 Vacation	0
MATH 2331	4			
Computer science elective	4			
Digital art elective	4			
Digital art 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
ENGW 3302	4			
Digital art elective	4			
Elective	4			
	16	0	0	0

Year 5		
Fall	Hours Spring	Hours
ARTD 4530 (*)	4 CS 4000	1
CS 4500	4 ARTD 4670 (*)	4
Computer science elective	4 Computing and social issues	4
Elective	4 Elective	4
	Elective	4
	16	17

Total Hours: 138

*Indicates course must be taken in the term listed.

Computer Science 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		

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

Computer Science Fundamental Courses

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	4

Computer Science Elective Courses

IS 2000 or CS 4500	Principles of Information Science Software Development	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
-----------	------------------------	---

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.

Foundational Courses

ENGL 1400	Introduction to Literary Studies	4
ENGL 1160 or ENGL 1410	Introduction to Rhetoric Introduction to Writing Studies	4

Diversity

Complete one of the following courses. This course may also be used to fulfill an additional English requirement below: 4

ENGL 2296	Early African-American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 3685 or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 2450	Postcolonial Literature	

ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 2760	Writing in Global Contexts
ENGL 3663	The African-American Novel

Pre-Nineteenth-Century Literature

Complete one of the following: 4

ENGL 1600	Introduction to Shakespeare
ENGL 2200	The Bible
ENGL 2210	Medieval British Literature
ENGL 2215	Shakespeare's Comedies
ENGL 2216	Shakespeare's Tragedies
ENGL 2230	Sixteenth-Century British Literature
ENGL 2240	Seventeenth-Century British Literature
ENGL 2250	Eighteenth-Century British Literature
ENGL 2295	Revolution and Revolt in Early American Literature
ENGL 2296	Early African-American Literature
ENGL 3151	Topics in Early Literatures Abroad
ENGL 3607	Chaucer
ENGL 3618	Milton
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 4020	Topics in 17th- and 18th-Century Literatures

Nineteenth-Century to Twenty-First-Century Literature

Complete one of the following: 4

ENGL 2260	Romantic Poetry
ENGL 2270	Victorian Literature
ENGL 2280	Nineteenth-Century British Fiction
ENGL 2330	The American Renaissance
ENGL 2340	American Realism
ENGL 3619	Emerson and Thoreau
ENGL 3720	Nineteenth-Century Major Figure
ENGL 4040	Topics in 19th-Century Literatures
ENGL 2290	Twentieth-Century British Literature
ENGL 2291	Major Twentieth-Century British Novelists
ENGL 2355	Modern American Literature
ENGL 2360	Modern African-American Literature
ENGL 2410	Contemporary American Literature
ENGL 2440	The Modern Bestseller
ENGL 2600	Irish Literary Culture Abroad
ENGL 2610	Contemporary Israeli Literature and Art Abroad
or JWSS 2610	Contemporary Israeli Literature and Art Abroad
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature

ENGL 3730 Twentieth- and Twenty-First-Century Major Figure

ENGL 4060 Topics in 20th- and 21st-Century Literatures

Theories and Methods

Complete one of the following: (exclude ENGL 3340) 4

ENGL 1160	Introduction to Rhetoric
ENGL 1410	Introduction to Writing Studies
ENGL 2830	Literary Theory
ENGL 3325	Rhetoric of Law
ENGL 3340	Technologies of Text
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 4400	Opening the Archive
ENGL 4110	Topics in Rhetoric and Writing Studies
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 1501	British Literature 1800 to Present
ENGL 1502	American Literature to 1865
ENGL 1503	American Literature 1865 to Present
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2620	What Is Nature? (Abroad)
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text Abroad
ENGL 3488	Film and Text
ENGL 3572	Fantasy
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel

Writing

Complete one of the following: 4

ENGL 2700	Creative Writing
ENGL 2770	Writing to Heal
ENGL 3376	Creative Nonfiction
ENGL 3377	Poetry Workshop
ENGL 3378	Fiction Workshop
ENGL 2710	Style and Editing
ENGL 2740	Writing and Community Engagement
ENGL 2760	Writing in Global Contexts
ENGL 3375	Writing Boston
ENGL 3379	Nonfiction Workshop
ENGL 3380	Topics in Writing
ENGL 3382	Publishing in the 21st Century

English Electives

Complete additional ENGL electives to reach total of 10 ENGL courses. 4

LING 1150	Introduction to Language and Linguistics (May substitute for one ENGL course in this elective requirement.)
-----------	-------------------------------------------------------------------------------------------------------------

Capstone

ENGL 4710 or ENGL 4720	Capstone Seminar or Capstone Project	4
------------------------	--------------------------------------	---

Integrative Course Requirement

Code	Title	Hours
ENGL 3340	Technologies of Text	4

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses.

CCIS Computing and Social Issues

Code	Title	Hours
Complete one of the following: 4		
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The Twenty-First-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111 or ENGW 1102	First-Year Writing or First-Year Writing for Multilingual Writers	4

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

133 total semester hours required

Note: CCIS intentionally makes the total credits required one less than the sum of the credits to allow for a one credit waiver if needed.

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 1800 and CS 1801	4	CS 2510 and CS 2511	5	CS 3500	5	Vacation	4
CS 2500 and CS 2501	5	CS 2800 and CS 2801	5	Elective	5		4
CS 1200	1	ENGL 1160 or 1410	4				
ENGW 1111	4	English Literary Period 1	4				
ENGL 1400	4						
		18		18		8	0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3200	4	Strand Elective 1	4	ENGW 3302, 3309, 3310, or 3315	4	Co-op	4
CS 4800	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				
		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 (if needed)	4
	ENGL 4710 or 4720	4 Elective (if needed)	4
	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 1800 and CS 1801	4 CS 2510 and CS 2511	5 Vacation	Vacation	
CS 2500 and CS 2501	5 CS 2800 and CS 2801	5		
CS 1200	1 ENGL 1160 or 1410	4		
ENGW 1111	4 English Literary Period 1	4		
ENGL 1400	4			
	18	18	0	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 CS 3200	4 Vacation	Co-op	
CS 4800	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
	Elective	4
	Elective	4
	0	16

Total Hours: 134

Computer Science and Environmental 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.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		

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

Computer Science Fundamental Courses

A grade of C– or higher is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

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.

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 3400	Field Geology	
ENVR 3410	Environmental Geochemistry	

ENVR 4106 and ENVR 4107	Coastal Processes and Lab for ENVR 4106	
ENVR 4504	Environmental Pollution	
ENVR 4505	Wetlands	
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 5248	Marine Geology	
ENVR 5270 and ENVR 5271	Glacial and Quaternary History and Lab for ENVR 5270	

Additional Requirements

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

Code	Title	Hours
------	-------	-------

Complete one of the following: 4

PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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 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

137 total semester hours required

Plan of Study**Five 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	4 Vacation	0 Vacation	0
CS 1800	4 CS 2511	1		
CS 1801	0 CS 2800	4		
CS 2500	4 CS 2801	1		
CS 2501	1 Elective	4		
ENVR 1200	4 Elective	4		
ENVR 1201	1			
ENGW 1111	4			
	19	18	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 CS 4800	4 Vacation	0 Co-op	0
CHEM 1211	4 CHEM 1214	4		
CHEM 1212	1 CHEM 1215	1		
CHEM 1213	0 CHEM 1216	0		
Elective	4 CS 1210	1		
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 CS 3200	4 Vacation	0 Co-op	0
	MATH 1251	4		
	Elective	4		
	Elective	4		
	0	16	0	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CS 3800	4 Vacation	0 Vacation	0
	MATH 1252	4		
	ENGW 3302	4		
	Elective	4		
	0	16	0	0

Year 5		
Fall	Hours Spring	Hours
MATH 3081	4 CS 4000	1
SOCL 4528	4 CS 4500	4
Elective	4 ENVR 4900	1
Elective	4 Elective	4
	Elective	4
	Elective	4
	16	18

Total Hours: 138

Computer Science and Game Development, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C- or higher is required in each course:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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
Upper-Level Computer Science Courses		
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	Software Development	4
CS 4800	Algorithms and Data	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	

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

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 other than GAME 2150, GAME 3150, or GAME 3250	
Any course in the ARTD, ARTE, ARTF, ARTG, ARTH, and ARTS subject areas	
CS 2600 to CS 5999 but not CS 5010	
IS 2000 to IS 5999 but not IS 4900	
MATH 1342	Calculus 2 for Science and Engineering
ECON 2350	Statistics
or PSYC 2320	Statistics in Psychological Research

General Requirements

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 English 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 three general electives.		12

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

Four Years, Two Co-ops

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	4	CS 2511	1	PSYC 1101	4		
CS 1801	0	CS 2800	4				
CS 2500	4	CS 2801	1				
CS 2501	1	MATH 1260	4				
GAME 2500 (*)	4	GAME 1110	4				
ENGW 1111	4	GAME 1111	0				
		18		18		8	
						0	

Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 4800	4	CS 1210	1	Elective	4	Co-op	
CS 3520 (*)	4	CS 3540 (*)	4	Elective	4		
GAME 2010 (*)	4	CS 4300	4				
GAME 3700 (*)	4	MATH 1341	4				
		CS/game-related elective	4				
		16		17		8	
						0	

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CS 3650	4 Co-op	0 Co-op	0
	CS 4850 (*)	4		
	GAME 3800 (*)	4		
	Game design elective	4		
	0	16	0	0

Year 4

Fall	Hours Spring	Hours	Summer 2	Hours
GAME 4700 (*)	4 CS 4000	1	Vacation	0
ENGW 3302	4 GAME 4701 (*)	4		
CS 3700	4 CS/game-related elective	4		
CS 4500	4 Computer science elective	4		
	General elective	4		
	16	17		0

Total Hours: 134

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

Computer Science and History, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	4
IS 2000	Principles of Information Science	4

Computer Science Elective Courses

Complete three upper-division computer science courses from the following ranges:

CS 2500 to CS 7999, but not CS 5010

IS 2000 to IS 7999, but not IS 4900

DS 2000 to DS 7999, but not DS 4900

Presentation Requirement

THTR 1170	The Eloquent Presenter	1
-----------	------------------------	---

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:

AFAM 1140	Introduction to African-American History	4
ASNS 1150	East Asian Studies	
HIST 1110	Introduction to World History	
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 1189	Introduction to South Asian History	
HIST 1215	Origins of Today: Historical Roots of Contemporary Issues	
HIST 1282	The Holocaust and Comparative Genocide	
HIST 2232	History of Boston	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	

Complete one course from the following:

AFRS 2390 or HIST 2390	Africa and the World in Early Times	4
AFRS 2391 or HIST 2391	Modern African Civilization	
AFRS 2392	African Diaspora	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	

HIST 1271	Ancient Rome
HIST 1285	Introduction to Russian Civilization
HIST 2222	History of Science and Technology
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
HIST 4911	Senior Project 1
HIST 4912	Senior Project 2

Public history concentrators may also select from the following:

HIST 4903	Fieldwork in History 1
HIST 4904	Fieldwork in History 2

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
or HIST 2241	History of Media in America	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Research Methods Requirement

Code	Title	Hours
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	

CCIS Computing and Social Issues

Code	Title	Hours
Complete one course from the following: 4		
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The Twenty-First-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

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

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

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

Note: CCIS intentionally makes the total credits required one less than the sum of the credits to allow for a one credit waiver if needed.

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 1800 and CS 1801	4	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	History Elective or Integrative 1	4				
ENGW 1111	4	Elective	4				
HIST 1200	1						
HIST 1201	4						
		19			17		
					8		
						0	

Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 4800	4	CS 2800 and CS 2801	5	Elective	4	Co-op	
HIST 2301	4	CS 1210	1	Elective	4		
HIST 2302	1	CS Elective 1	4				
History Elective or Integrative 2	4	History Elective or Integrative 3	4				

ECON 2350, POLS 2400, PSYC 2320, SOCL 2320, ENVR 3300, or ENVR 5260	4 History Elective or Integrative 4	4		
---------------------------------------------------------------------------------------	-------------------------------------------	---	--	--

	17	18	8	0
--	----	----	---	---

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	CS Elective 2	4 Elective	4 Co-op	

	History Elective or Integrative 5	4 Elective	4	
--	-----------------------------------------	------------	---	--

	History Elective or Integrative 6	4		
--	-----------------------------------------	---	--	--

	SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4		
--	---------------------------------------------------------------------	---	--	--

	THTR 1170	1		
--	-----------	---	--	--

	0	17	8	0
--	---	----	---	---

Year 4

Fall	Hours Spring	Hours Summer 1	Hours
Co-op	CS Elective 3	4 Elective (if needed)	4

	History Capstone Seminar or Senior Project	4 Elective (if needed)	4
--	--------------------------------------------------------	---------------------------	---

	History Elective or Integrative 7	4	
--	-----------------------------------------	---	--

	Elective	4	
--	----------	---	--

	0	16	8
--	---	----	---

Total Hours: 136

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 1801	4 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 History Elective or Integrative 1	4		
---------	-------------------------------------------	---	--	--

ENGW 1111	4 Elective	4		
-----------	------------	---	--	--

HIST 1200	1			
-----------	---	--	--	--

HIST 1201	4			
-----------	---	--	--	--

	19	17	8	0
--	----	----	---	---

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 4800	4 Co-op	Co-op	Elective	4

CS 1210	1		Elective	4
---------	---	--	----------	---

HIST 2301	4
-----------	---

HIST 2302	1
-----------	---

History Elective or Integrative 2	4
-----------------------------------------	---

ECON 2350, POLS 2400, PSYC 2320, SOCL 2320, ENVR 3300, or ENVR 5260	4
---------------------------------------------------------------------------------------	---

	18	0	0	8
--	----	---	---	---

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800 and CS 2801	5 Co-op	Co-op	Elective	4

CS Elective 1	4		Elective	4
---------------	---	--	----------	---

History Elective or Integrative 3	4			
-----------------------------------------	---	--	--	--

History Elective or Integrative 4	4			
-----------------------------------------	---	--	--	--

THTR 1170	1			
-----------	---	--	--	--

	18	0	0	8
--	----	---	---	---

Year 4

Fall	Hours Spring	Hours Summer 1	Hours
CS Elective 2	4 CS Elective 3	4 Elective (if needed)	4

History Elective or Integrative 5	4 History Capstone Seminar or Senior Project	4 Elective (if needed)	4
-----------------------------------------	----------------------------------------------------------	---------------------------	---

History Elective or Integrative 6	4 History Elective or Integrative 7	4	
-----------------------------------------	-------------------------------------------	---	--

SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4 Elective	4	
---------------------------------------------------------------------	------------	---	--

	16	16	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 1800 and CS 1801	4 CS 2510	4 Vacation	Vacation	

CS 2500 and CS 2501	5 CS 2511	1		
------------------------	-----------	---	--	--

CS 1200	1 IS 2000	4		
---------	-----------	---	--	--

ENGW 1111	4 History Elective or Integrative 1	4		
-----------	-------------------------------------------	---	--	--

HIST 1200	1 History Elective of Integrative 2	4		
HIST 1201	4			
		19	17	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 CS 2800 and CS 2801	5 Vacation	Co-op	
CS 4800	4 CS 1210	1		
HIST 2301	4 CS 3200	4		
HIST 2302	1 History Elective or Integrative 3	4		
ECON 2350, POLS 2400, PSYC 2320, SOCL 2320, ENVR 3300, or ENVR 5260	4 History Elective or Integrative 4	4		
		17	18	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	CS Elective 1	4 Elective	4 Co-op	
	History Elective or Integrative 5	4 Elective	4	
	SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4		
	Elective	4		
	THTR 1170	1		
		0	17	8

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	CS Elective 2	4 Elective	4 Co-op	
	History Elective or Integrative 6	4 Elective	4	
	Elective	4		
	Elective	4		
		0	16	8

Year 5

Fall	Hours Spring	Hours
Co-op	CS Elective 3	4
	History Capstone Seminar or Senior Project	4
	History Elective or Integrative 7	4

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
CS 1800 and CS 1801	4 CS 2510 and CS 2511	5 Vacation	Vacation	
CS 2500 and CS 2501	5 IS 2000	4		
CS 1200	1 History Elective or Integrative 1	4		
ENGW 1111	4 History Elective or Integrative 2	4		
HIST 1200	1			
HIST 1201	4			
		19	17	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 Co-op	Co-op	Vacation	
CS 4800	4			
CS 1210	1			
HIST 2301	4			
HIST 2302	1			
ECON 2350, POLS 2400, PSYC 2320, ENVR 3300, or ENVR 5260	4			
		18	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800 and CS 2801	5 Co-op	Co-op	Elective	4
CS 3200	4		Elective	4
History Elective or Integrative 3	4			
History Elective or Integrative 4	4			
THTR 1170	1			
		18	0	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS Elective 1	4 Co-op	Co-op	Elective	4
History Elective or Integrative 5	4		Elective	4

SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4			
Elective	4			
	16	0	0	8

Year 5

Fall	Hours	Spring	Hours
CS Elective 2	4	CS Elective 3	4
History Elective or Integrative 6	4	History Capstone Seminar or Senior Project	4
Elective	4	History Elective or Integrative 7	4
Elective	4	Elective	4
	16		16

Total Hours: 136

Computer Science and Interactive Media, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C– or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4

CS 4300	Computer Graphics	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4
IS 4300	Human Computer Interaction	4
Computer Science Senior Seminar		
CS 4000 or THTR 1170	Senior Seminar The Eloquent Presenter	1

Design Requirements

Code	Title	Hours
ARTH 1100	Interactive Media and Society	4
ARTD 2100 or ARTG 1250	Narrative Basics Design Process Context and Systems	4
ARTG 2260	Programming Basics	4
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	5
ARTG 4700	Interaction Team Degree Project 1	4
ARTG 4701	Interaction Team Degree Project 2	4
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
Complete one of the following:		5
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	

Major Requirements

Code	Title	Hours
PSYC 1101	Foundations of Psychology	4
MATH 1260	Math Fundamentals for Games	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

Creative Industries Electives

Code	Title	Hours
Complete five courses from the following lists:		20-25
Game Design		
GAME 1110	Games and Society	
GAME 2200	Games and Learning	
GAME 2500	Foundations of Game 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 3899	Topics in Game Design

Art and Design

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
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools

Animation

ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools
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 2380 and ARTD 2381	Video Basics and Video Tools
ARTD 3480	Video: Sound and Image
ARTD 5582	Collaborative Video and Community Engagement
ARTD 4682	Video in Context: Video and Social Change

Photography

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools
ARTD 3460	Photography 1
ARTD 4565	Photography 2
ARTD 4661	Alternative Photographic Processes

Graphic Design

ARTG 2250 and ARTG 2251	Typography 1 and Type Tools
ARTG 2252	Graphic Design 1
ARTG 3350	Typography 2

Interactive Media

ARTD 2200	Interactive Narrative
ARTG 2300	Business Literacy for Design and Media
ARTG 3250	Physical Computing
ARTG 3500	Transmedia Design
ARTG 3700	Interaction Design 2: Mobile

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 4400	Programming Languages
CS 4550	Web Development
CS 4850	Building Game Engines
CS 4910	Computer Science Topics
CS 4991	Research
CS 4992	Directed Study
CS 4993	Independent Study

Psychology

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

Mathematics

MATH 1341	Calculus 1 for Science and Engineering
MATH 1342	Calculus 2 for Science and Engineering
MATH 2321	Calculus 3 for Science and Engineering
MATH 2331	Linear Algebra
MATH 3081	Probability and Statistics
MATH 2341	Differential Equations and Linear Algebra for Engineering

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
- 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 Requirements

Minimum 2.000 GPA required in all CS, IS, and IM required courses

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
CS 1200	1 CS 2510 and CS 2511	5 CS 3500	4
CS 1800 and CS 1801	4 CS 2800 and CS 2801	5 CS 4800	4
CS 2500 and CS 2501	5 ARTH 1100	4	
ENGW 1111	4 ARTF 1124 and ARTF 1125	5	
ARTF 1122 and ARTF 1123	5		
	19	19	8

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ARTG 2260*	4 Co-op 1	Co-op 1	Elective	4
MATH 1260	4		Elective	4
PSYC 1101	4			
ARTD 2100 or ARTG 1250	4			
CS 1210	1			
	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 1111	4
ARTG 2400 and ARTG 2401*	5		Elective	4
Creative Industries Elective 1	4			
CS 4300	4			
THTR 1170	1			
	18	0	0	8

Year 4

Fall	Hours Spring	Hours Summer 1	Hours
CS 4500	4 ARTG 4701*	4 Elective	4
ARTG 4700*	4 Computing and Social Issues	4 Elective	4
Creative Industries Elective 2	4 Creative Industries Elective 4	4	
Creative Industries Elective 3	4 Creative Industries Elective 5	4	
	16	16	8

Total Hours: 137

Five Years, Three Co-ops in Spring/Summer 1**Year 1**

Fall	Hours Spring	Hours Summer 1	Hours
CS 1200	1 CS 2510 and CS 2511	5 CS 3500	4
CS 1800 and CS 1801	4 CS 2800 and CS 2801	5 CS 4800	4
CS 2500 and CS 2501	5 ARTH 1100	4	
ENGW 1111	4 ARTF 1124 and ARTF 1125	5	
ARTF 1122 and ARTF 1123	5		
	19	19	8

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ARTG 2260*	4 Co-op 1	Co-op 1	Elective	4
MATH 1260	4		Elective	4
PSYC 1101	4			
ARTD 2100 or ARTG 1250	4			
CS 1210	1			
	17	0	0	8

Year 3

Fall	Hours Spring	Hours Summer 1	Hours
IS 4300	4 Co-op 2	Co-op 2	
ARTG 2400 and ARTG 2401*	5		
Creative Industries Elective 1	4		
CS 4300	4		
THTR 1170	1		
	18	0	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours
ENGW 3302	4 Co-op 3	Co-op 3	
Elective	4		
Creative Industries Elective 2	4		
Creative Industries Elective 3	4		
	16	0	0

Year 5

Fall	Hours Spring	Hours
CS 4500	4 ARTG 4701	4
ARTG 4700*	4 Computing and Social Issues	4

Creative Industries Elective 4	4 Creative Industries Elective 5	4
Elective	4 Elective	4
		16
		16

Total Hours: 137

* Indicates course must be taken in the semester listed.

Computer Science and Journalism, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1

Computer Science Fundamental Courses

A grade of C– or higher is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4

Computer Science Senior Seminar

CS 4000 or THTR 1170	Senior Seminar The Eloquent Presenter	1
----------------------	------------------------------------------	---

Computer Science Elective Courses

Complete three courses from the following ranges:	12
CS 2600 to CS 7999 but not CS 5010	
IS 2000 to IS 7999 but not IS 4900	

At least one of these three courses must be from the following list:

IS 4200	Information Retrieval
IS 4300	Human Computer Interaction
IS 4700	Social Information Systems

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	Journalism Ethics and Issues	

Code	Title	Hours
------	-------	-------

Journalism Courses

A grade of C or higher is required:

JRNL 1101	Journalism 1: Fundamentals of Reporting	4
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	Interpreting the Day's News	4
JRNL 2350	History of Journalism	4
JRNL 3550	Law of the Press	4
JRNL 4650	Journalism Ethics and Issues	4

Journalism Electives

Complete two JRNL courses. 8

Journalism-Related Requirement

HIST 1130	Introduction to the History of the United States	4
-----------	--------------------------------------------------	---

Mathematics Requirement

Code	Title	Hours
MATH 1341	Calculus 1 for Science and Engineering	4

Computing and Social Issues

Complete one of the following: 4

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	

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
-----------	-----------------------------------	---

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
- 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.

Code	Title	Hours
	Complete seven general electives.	28

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and JRNL courses

Program Requirement

133 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
CS 1200	1	CS 2510	4	Vacation	0
CS 1800	4	CS 2511	1		
CS 1801	0	CS 2800	4		
CS 2500	4	CS 2801	1		
CS 2501	1	JRNL 1101	4		
JRNL 1150	4	HIST 1130	4		
ENGW 1111	4				
		18		18	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 1210	1	Co-op	0	Co-op	0
CS 3500	4				
JRNL 2201	4				
MATH 1341	4				
Elective	4				
		17		0	0
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 3200	4	Co-op	0	Co-op	0
CS 4800	4				Elective
JRNL 2301	4				
Elective	4				
		16		0	0
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
JRNL 2350	4	Co-op	0	Co-op	0
JRNL 3610	4				Elective
		4		0	4

Computer science elective	4			
Elective	4			
		16	0	0
Year 5				
Fall	Hours	Spring	Hours	
JRNL 3550	4	CS 4000	1	
Journalism elective	4	CS 4500	4	
Computer science elective	4	JRNL 4650	4	
Computer science elective	4	Journalism elective	4	
		Computing and social issues	4	
		16	17	

Total Hours: 134

Computer Science and Linguistics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C- or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 (Integrative course)	5

Computer Science Required Courses

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	Software Development	4
CS 4800	Algorithms and Data	4
Computer Science Senior Seminar		
CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	
Computer Science Elective Course		
With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as upper-division electives.		
Complete one course from the following range:		4
CS 2600 to CS 7999 but not CS 5010		
IS 2000 to IS 7999 but not IS 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	Phonetics and 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	
LING 4996	Experiential Education Directed Study	
PSYC 4610	Laboratory in Psycholinguistics	
Linguistics Elective		
Complete one of the following:		4
DEAF 2700	ASL Linguistics	
LING 3402	African-American English	
LING 3424	Morphology	
LING 3428	African Languages	
LING 3430	Applied Linguistics	
LING 3432	Romance Linguistics	
LING 3434	Bilingualism	
LING 3436	Structure of Spanish	

LING 3438	Structure of French	
LING 3442	Sociolinguistics	
LING 3444	Linguistics in Education	
LING 3448	Issues in Linguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 3460	Historical Linguistics	
LING 4654	Seminar in Linguistics	
PHIL 1215	Symbolic Logic	
PHIL 4540	Philosophy of Language	
PSYC 3466	Cognition	
PSYC 4520	Language and the Brain	
PSYC 4522	Psychology of Reading	
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	
LING 4993	Independent Study	
PSYC 4991	Directed Study Research	
Seminar Requirement		
LING 4654	Seminar in Linguistics	4
or PSYC 4658	Seminar in Psycholinguistics	

Mathematics Requirement

Code	Title	Hours
Calculus		
MATH 1341	Calculus 1 for Science and Engineering (A grade of C- or higher is required)	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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

Complete four 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

Five Years, Three Co-ops

Year 1					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 1200	1	CS 2510	4	Vacation	0
CS 2500	4	CS 2511	1		
CS 2501	1	CS 2800	4		
CS 1800	4	CS 2801	1		
CS 1801	0	LING 2350	4		
LING 1150	4	PSYC 1101	4		
ENGW 1111	4				
	18		18	0	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 3500	4	CS 1210	1	Vacation	0
MATH 1341	4	CS 3800	4		
LING 3412	4	CS 4800	4		
PSYC 3464	4	LING 3422	4		
		PSYC 2320 or 3464	4		
	16		17	0	0
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	CS 4120	4	Elective	4
		CS 4400	4	Elective	4
		LING 3450	4		

Year 4				
Fall	Hours	Spring	Hours	Summer 2
Co-op	0	CS 4100	4	Elective
		Computer science undergraduate elective	4	4
		LING lab	4	
		LING 3424, 3452, or Linguistics el	4	
	0		16	8
Year 5				
Fall	Hours	Spring	Hours	Summer 2
Co-op	0	CS 4500	4	
		CS 4000	1	
		LING seminar	4	
		LING 3452, 3424, or Linguistics el	4	
		SOCL 4528	4	
	0		17	

Total Hours: 134

Computer Science and Mathematics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C- or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800 (Integrative course)	4

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 (Integrative course)	5

Computer Science Required Courses		
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4300	Computer Graphics (Integrative course) ¹	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4

Computer Science Senior Seminar		
CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

Computer Science Elective Courses
 With advisor approval, directed study courses, project study course, and appropriate graduate courses may also be taken.
 Complete two upper-division computer science courses from the following ranges:
 CS 2600 to CS 7999 but not CS 5010
 IS 2000 to IS 7999 but not IS 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	4

Mathematics Electives
 Complete three courses from the following range: 12
 MATH 3001 to MATH 4999 but not MATH 4000

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Computing and Social Issues

Code	Title	Hours
Complete one of the following: 4		
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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

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 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

Five Years, Three Co-ops in Summer 2/Fall

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800	4	CS 2510	4	Vacation	0	Vacation	0
CS 1801	0	CS 2511	1				
CS 2500	4	CS 2800	4				
CS 2501	1	CS 2801	1				
MATH 1341	4	MATH 1342	4				
ENGW 1111	4	Elective	4				
CS 1200	1						
		18		18		0	

Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 4800	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			
	0	16	8	0	
Year 4					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
Co-op	0 CS 4500	4 Elective	4 Co-op	0	
	MATH 3527	4 Elective	4		
	MATH undergraduate elective	4			
	CS undergraduate elective	4			
	0	16	8	0	
Year 5					
Fall	Hours Spring	Hours			
Co-op	0 SOCL 4528	4			
	CS 4000	1			
	CS undergraduate elective	4			
	MATH undergraduate elective	4			
	MATH undergraduate 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	
CS 1800	4 CS 2510	4 Vacation	0 Vacation	0	
CS 1801	0 CS 2511	1			
CS 2500	4 CS 2800	4			
CS 2501	1 CS 2801	1			
MATH 1341	4 MATH 1342	4			
ENGW 1111	4 Elective	4			
CS 1200	1				
	18	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 4800	4 Co-op	0 Co-op	0 Elective	4	
MATH 2331	4		Elective	4	
MATH 3081	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	
CS 4300	4		Elective	4	
MATH 3527	4				
ENGW 3302	4				
	16	0	0	8	
Year 5					
Fall	Hours Spring	Hours			
CS 4500	4 SOCL 4528	4			
MATH 3175	4 CS 4000	1			
MATH undergraduate elective	4 CS undergraduate elective	4			
CS undergraduate elective	4 MATH undergraduate elective	4			
	MATH undergraduate elective	4			
	16	17			

Total Hours: 134

Computer Science and Mathematics, BS/MS

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Computer Science Courses

Code	Title	Hours
------	-------	-------

Computer Science Overview

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

Computer Science Fundamental Courses

A grade of C– or higher is required in Computer Science Fundamental courses.

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800 (Integrative course)	4
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 (Integrative course)	5

Computer Science Required Courses

CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4300	Computer Graphics (Integrative course) ¹	4
CS 4500	Software Development	4

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

Computer Science Elective Courses

With advisor approval directed study courses, project study courses, and appropriate graduate courses may also be taken.

Complete two upper division computer science courses in the following ranges: 8

- CS 2600 to CS 7999 but not CS 5010
- IS 2000 to IS 7999 but not IS 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 (Integrative course)	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	4

Mathematics Electives

Complete three courses in the following range: 12
MATH 3001 to MATH 4999 but not MATH4000

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Graduate Course Work To Be Taken As An Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Code	Title	Hours
Master's-Level Required Courses		
CS 5400	Principles of Programming Language	4
CS 5600	Computer Systems	4
CS 5800	Algorithms	4

Master's-Level Computer Science Elective Course

Complete one course in the following range: 4
CS 5000 to CS 7999 but not CS 5010

Entrance Requirements

- Evaluation for entrance may be requested after a minimum of 3 semesters of CCIS coursework.
- The GPA in CCIS courses must be at least 3.25.
- The overall GPA must be at least 3.25.
- Requests for entrance to the BS/MS can be via email to advising@ccs.neu.edu. If requesting via email, include your name, ID, and which BS/MS program you wish to enter.

Computing and Social Issues

Code	Title	Hours
Complete one of the following: 4		
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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 six general electives.		24

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 Requirements

133 total semester hours required for the bachelor's degree

Plan of Study

Five plus One Years, Three co-ops

Year 1				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 1200	1 CS 2510	4 Vacation	0 Vacation	0
CS 1800	4 CS 2511	1		
CS 1801	0 CS 2800	4		
CS 2500	4 CS 2801	1		
CS 2501	1 MATH 1342	4		
MATH 1341	4 Elective	4		
ENGW 1111	4			
	18	18	0	0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 CS 5800	4 Elective	4 Co-op	0
CS 3800	4 CS 1210	1 Elective	4	
MATH 2321	4 MATH 2331	4		
MATH 2341	4 MATH 3081	4		
	Elective	4		
	16	17	8	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CS 5400	4 Elective	4 Co-op	0
	CS 4300	4 Elective	4	
	MATH 3175	4		
	ENGW 3302	4		
	0	16	8	0
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CS 4500	4 Vacation	0 Co-op	0
	CS 5600	4		
	MATH 3527	4		
	Math Undergraduate elective	4		
	0	16	0	0
Year 5				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CS 4000	1 Vacation	0 Vacation	0
	SOCL 4528	4		
	Math Undergraduate elective	4		
	Masters level CS elective	4		

	Math Undergraduate elective	4		
	0	17	0	0
Year 6				
Fall	Hours Spring	Hours		
Masters level CS elective	4 Masters level CS elective	4		
Masters level CS elective	4 Masters level CS elective	4		
	8	8		

Total Hours: 150

Computer Science and Music with Concentration in Music Composition and 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C- or higher is required in each course:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4
IS 4300	Human Computer Interaction (Integrative)	4
Computer Science Senior Seminar		

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	
Computer Science Elective Courses		
Complete two courses in the following ranges:		8
CS 2600 to CS 7999 but not CS 5010		
IS 2000 to IS 7999 but not IS 4900		

Music Composition and Technology Courses

Code	Title	Hours
Music Theory		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
Music Composition		
MUST 1301	Introduction to Composition	4
MUST 2315	History of Electronic Music	4
MUST 3422	Music Composition Seminar 2	4
or MUSC 2420	Music Composition Seminar 1	
Music Technology		
MUST 1220	Introduction to Music Technology	4
MUSC 3560	Historical Traditions: Music since 1900	4
MUST 4520	Interactive Real-Time Performance	4
Electronic Composition and Performance		
Complete the following two courses in order:		
MUST 4610	Composition for Electronic Instruments	4
MUST 4611	Music Technology Capstone/Senior Recital	4
Music Composition and Technology Integrative Course		
MUST 3421	Digital Audio Processing	4
Composition Lessons		
Complete the following course four times:		4
MUSC 1903	Composition Lessons	
Music Elective Requirements		
Complete two courses in the following ranges:		8
MUST 2320 to MUST 4993		
MUSC 2000 to MUSC 4993		

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
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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 four general electives.		16

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
- Integrating Knowledge and Skills Through Experience
- 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

137 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
CS 1200	1	CS 2510	4	Vacation	0
CS 1800	4	CS 2511	1		
CS 1801	0	CS 2800	4		
CS 2500	4	CS 2801	1		
CS 2501	1	ENGW 1111	4		
MUSC 1201 (*)	4	MUST 1301 (*)	4		
MUSC 1202 (*)	4				
		18		0	
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 3500	4	CS 3200	4	Vacation	0
MUST 1220 (*)	4	CS 4800	4		
PSYC 1101 (*)	4	MUST 3421 (*)	4		
MUSC 1903 (*)	1	MUSC 1903 (*)	1		

Elective	4 Elective	4		
	17	17	0	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 1210	1 Co-op	0 Co-op	0 Vacation	0
IS 4300	4			
MUSC 3560 (*)	4			
MUST 2315 (*) (*) Offered every other fall	4			
MUSC 1903	1			
ENGW 3302	4			
	18	0	0	0
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MUST 4520 (*)	4 Co-op	0 Co-op	0 Vacation	0
MUST 3422 or MUSC 2420	4			
Computer Science Elective	4			
Music Elective	4			
	16	0	0	0
Year 5				
Fall	Hours Spring	Hours		
CS 4500	4 CS 4000	1		
MUST 4610 (*)	4 MUST 4611 (*)	4		
MUSC 1903 (*)	1 Computer Science Elective	4		
Music Elective	4 Elective	4		
Computing & Social Issues	4 Elective	4		
	17	17		

Total Hours: 138

*Indicates course must be taken in the term listed.

Computer Science 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1

Computer Science Fundamental Courses

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4

Computer Science Elective Courses

Complete two upper-division computer science courses from the following ranges:		8
CS 2500 to CS 7999, but not CS 5010		
IS 2000 to IS 7999, but not IS 4900		
DS 2000 to DS 7999, but not DS 4900		

Presentation Requirement

THTR 1170	The Eloquent Presenter	1
-----------	------------------------	---

Philosophy Courses

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115 or PHIL 1215	Introduction to Logic Symbolic Logic	4
PHIL 2325 or POLS 2325 or PHIL 2330	Ancient Philosophy and Political Thought Ancient Philosophy and Political Thought Modern Philosophy	4
PHIL 1145	Technology and Human Values	4
PHIL 4515	Advanced Logic	4

Philosophy Intermediate/Advanced Electives

Complete one course from the following:		4
PHIL 3435	Moral Philosophy	
PHIL 3436	History of Modern Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4535	Philosophy of Mind	

Philosophy Electives

Complete three additional 4 SH courses from the PHIL list.		12
------------------------------------------------------------	--	----

Philosophy Capstone

Note: You must choose distinct courses to satisfy Intermediate/Advanced Elective and Capstone.

Complete one course from the following: 4

PHIL 4500	Theory of Knowledge
PHIL 4505	Metaphysics
PHIL 4510	Philosophy of Science
PHIL 4535	Philosophy of Mind
PHIL 4901	Topics in Philosophy Seminar
PHIL 4902	Great Philosophers Seminar
PHIL 5001	Global Justice

Integrative Course Requirement (No additional credit required)

Code	Title	Hours
CS 3800	Theory of Computation	
PHIL 4515	Advanced Logic	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

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 3309	Advanced Writing in the Humanities
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines

Required General Electives

Code	Title	Hours
Complete eleven 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

Note: CCIS intentionally makes the total credits required one less than the sum of the credits to allow for a one credit waiver if needed.

Plan of Study

Four Years, 2 Co-ops in Summer 2/Fall

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1801	4	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 2500 and CS 2501	5	CS 2800 and CS 2801	5	Elective	4		
CS 1200	1	PHIL 2325, POLS 2325, or PHIL 2330	4				
ENGW 1111	4	Elective	4				
PHIL 1115 or 1215	4						
		18		18		8	
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 4800	4	CS Elective 1	4	ENGW 3302, 3309, or 3315	4	Co-op	4
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	
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 3800	4	Elective	4	Co-op	4
		CS Elective 2	4	Elective	4		
		PHIL 4515	4				
		Elective	4				
		THTR 1170	1				
		0		17		8	
Year 4							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CS 4500	4	Elective (if needed)	4		
		PHIL Intermediate/Advanced Elective	4	Elective (if needed)	4		
		PHIL Capstone	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 1800 and CS 1801	4 CS 2510 and CS 2511	5 Vacation	Vacation	
CS 2500 and CS 2501	5 CS 2800 and CS 2801	5		
CS 1200	1 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 3500	4 CS Elective 1	4 Vacation	Co-op	
CS 4800	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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C- or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4
Computer Science Senior Seminar		
CS 4000 or THTR 1170	Senior Seminar 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 4900	Honors Senior Seminar	
CS 4750	Secure Wireless Ad Hoc Robots on Mission (SWARM) 1	
CS 4760	Secure Wireless Ad Hoc Robots on Mission (SWARM) 2	
CS 4410	Compilers	
CS 4150	Game Artificial Intelligence	
CS 4550	Web Development	
CS 4650	High Performance Computing	
CS 4997	Computer Science Thesis	
CS 4998	Computer Science Thesis Continuation	

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, project study, or appropriate graduate-level course may be taken as a computer science elective.

Complete one course from the following ranges: 4

CS 2600 to CS 7999 but not CS 5010	
IS 2000 to IS 7999 but not IS 4900	

Physics Elective

Only one physics elective is required if the student has completed the physics capstone (above).

Complete two courses from the following range: 8
PHYS 3000 to PHYS 5999

Mathematics 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

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		4

PHIL 1145	Technology and Human Values
SOCL 1280	The Twenty-First-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

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 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

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

Program Requirement

135 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
CS 1800	4	CS 2510	4	Vacation	0	Vacation	0
CS 1801	0	CS 2511	1				
CS 2500	4	MATH 1342	4				
CS 2501	1	PHYS 1165	4				
MATH 1341	4	PHYS 1166	1				
PHYS 1161	4	ENGW 1111	4				
PHYS 1162	1						
CS 1200	1						
		19		18		0	
						0	

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800	4 CS 4800	4 Vacation	0 Co-op	0
CS 2801	1 PHYS 2305	4		
CS 3500	4 MATH 2321	4		
PHYS 2303	4 MATH 2341	4		
PHYS 2371	3 CS 1210	1		
PHYS 2372	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		
	0	16	8	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CS 4500	4 Elective	4 Co-op	0
	MATH 4525	4 Elective	4	
	PHYS undergraduate elective	4		
	SOCL 4528	4		
	0	16	8	0

Year 5

Fall	Hours Spring	Hours
Co-op	0 CS undergraduate elective	4
	CS 4000	1
	PHYS undergraduate elective	4
	Elective	4
	Elective	4
	0	17

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 1800	4 CS 2510	4 Vacation	0 Vacation	0
CS 1801	0 CS 2511	1		
CS 2500	4 MATH 1342	4		
CS 2501	1 PHYS 1165	4		
PHYS 1161	4 PHYS 1166	1		
PHYS 1162	1 ENGW 1111	4		
CS 1200	1			
MATH 1341	4			
	19	18	0	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800	4 Co-op	0 Co-op	0 Vacation	0
CS 2801	1			
CS 3500	4			
PHYS 2303	4			
PHYS 2371	3			
PHYS 2372	1			
CS 1210	1			
	18	0	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 4800	4 Co-op	0 Co-op	0 PHYS 3600	4
MATH 2321	4		Elective	4
MATH 2341	4			
PHYS 2305	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			
	16	0	0	8

Year 5

Fall	Hours Spring	Hours
CS 4500	4 CS undergraduate elective	4
MATH 4525	4 CS 4000	1
PHYS undergraduate elective	4 PHYS undergraduate elective	4
SOCL 4528	4 Elective	4
	Elective	4
	16	17

Total Hours: 136

Computer Science and Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	4
IS 2000	Principles of Information Science	4
Computer Science Writing Intensive Requirement		
Complete one course from 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.)	
Computer Science Elective Courses		
Complete two upper-division computer science courses from the following ranges:		8
CS 2500 to CS 7999, but not CS 5010		
IS 2000 to IS 7999, but not IS 4900		
DS 2000 to DS 7999, but not DS 4900		
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1

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 three Sociology electives from the following ranges:		12
Sociology Elective A: Complete one course from SOCL 1000 to 1999.		
Sociology Elective B: Complete one course from SOCL 2000 to 3999.		
Sociology Elective C: Complete one course from SOCL 4000 to 4999.		

Sociology Required Capstone

Code	Title	Hours
SOCL 4600	Senior Seminar	4

Integrative Course Requirement

Code	Title	Hours
Complete one course from the following:		4
SOCL 1280	The Twenty-First-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Computer Science English Requirement

Code	Title	Hours
College Writing		
ENGW 1111 or ENGW 1102	First-Year Writing or 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 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 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
- 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

Note: CCIS intentionally makes the total credits required one less than the sum of the credits to allow for a one credit waiver if needed.

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 1800 and CS 1801	4 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			
	18	17	8	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800 and CS 2801	5 CS Elective 1	4 ENGW 3302, 3308, or 3315	4 Co-op	
CS 4800	4 CS 1210	1 Elective	4	
SOCL 2321	4 SOCL 2300	4		
ANTH 2305	4 Sociology Elective A	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	
	Sociology Elective B	4 Elective	4	
	SOCL 1280, 3485, 4528, or ANTH 3418	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 4500, IS 3500, or DS 4200	4 Elective (if needed)	4	
	SOCL 4600	4 Elective (if needed)	4	
	Sociology Elective C	4		
	Elective	4		
	0	16	8	

Total Hours: 134

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 1801	4 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			
	18	17	8	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800 and CS 2801	5 Co-op	Co-op	ENGW 3302, 3308, or 3315	4
CS 4800	4		Elective	4
CS 1210	1			
SOCL 2321	4			
ANTH 2305	4			
	18	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 Elective A	4			
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 CS 4500, IS 3500, or DS 4200	4 Elective (if needed)	4	
Sociology Elective B	4 SOCL 4600	4 Elective (if needed)	4	
SOCL 1280, 3485, 4528, or ANTH 3418	4 Sociology Elective C	4		
Elective	4 Elective	4		
	16	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 1801	4 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			
	18	17	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 CS 2800 and CS 2801	5 Vacation	Co-op	
CS 4800	4 CS 3200	4		
SOCL 2321	4 CS 1210	1		

ANTH 2305	4	SOCL 2300	4		
		Sociology Elective A	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, or 3315	4 Co-op	
	Sociology Elective B	4 Elective	4	
	SOCL 1280, 3485, 4528, or ANTH 3418	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	
	Sociology Elective C	4 Elective	4	
	Elective	4		
	Elective	4		
	0	16	8	0

Year 5

Fall	Hours Spring	Hours
Co-op	CS 4500, IS 3500, or DS 4200	4
	SOCL 4600	4
	Elective	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 1801	4 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			
	18	17	0	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 Co-op	Co-op	Vacation	
CS 4800	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 2800 and CS 2801	5 Co-op	Co-op	ENGW 3302, 3308, or 3315	4
CS 3200	4		Elective	4
SOCL 2300	4			
Sociology Elective A	4			
THTR 1170	1			
	18	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 Elective B	4		Elective	4
SOCL 1280, 3485, 4528, or ANTH 3418	4			
Elective	4			
	16	0	0	8

Year 5

Fall	Hours Spring	Hours
CS Elective 2	4 CS 4500, IS 3500, or DS 4200	4
Sociology Elective C	4 SOCL 4600	4
Elective	4 Elective	4
Elective	4 Elective	4
	16	16

Total Hours: 134

Information Science and Business Administration, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
------	-------	-------

Computer Science Overview

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

Computer Science Fundamental Courses

A grade of C- or higher is required in Computer Science Fundamental courses.

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	4

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

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

Integrative Courses

MISM 3305	Information Resource Management	4
MISM 3404	Data Communications	4

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		
STRT 4501	Strategy in Action	4
STRT 4514	Internal Case Competition Challenge	4
STRT 4516	External Case Competition Challenge	4

¹ Strategy in Action (STRT 4501), Internal Case Competition Challenge (STRT 4514), External Case Competition Challenge (STRT 4516) all satisfy the Capstone Requirement.

Business Concentration

Complete a four-course business concentration from the following list. Requirements for the concentrations are listed below (p. 327).

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management

- Marketing
- Supply Chain Management

Mathematics and Economics Requirements

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

Code	Title	Hours
Complete one of the following:		
PHIL 1145	Technology and Human Values	4
SOCL 1280	The Twenty-First-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	

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 three general electives.		12

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
- 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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	

ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

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 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 4518	Risk Management and Insurance	
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		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

CONCENTRATION IN MARKETING

Code	Title	Hours
Required Courses		
MKTG 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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

Five Years, Three Co-ops in Summer 2/Fall

Year 1					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 1800	4	CS 2510	4	Vacation	0
CS 1801	0	CS 2511	1	Vacation	0
CS 2500	4	CS 2800	4		
CS 2501	1	CS 2801	1		
CS 1200	1	ECON 1116	4		
ECON 1115	4	Elective	4		
ENGW 1111	4				
		18	18	0	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
IS 2000	4	IS 3500	4	Vacation	0
CS 3500	4	CS 3200	4	Co-op	0
ACCT 1201	4	ACCT 2301	4		
MGSC 2301	4	CS 4800	4		
		CS 1210	1		
		16	17	0	0
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	MISM 3404	4	ORGB 3201	4
		FINA 2201	4	MKTG 2201	4
		MATH 1341	4		
		ENGW 3302	4		
		0	16	8	0
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	IS 4800	4	Elective	4
		MISM 3305	4	Elective	4
		Business elective	4		
		Business elective	4		
		0	16	8	0
Year 5					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	STRT 4501	4		
		SOCL 4528	4		
		CS 4000	1		
		Business elective	4		

Business
elective 4

0 17

Total Hours: 134

Information Science and Cognitive Psychology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer and Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C– or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4
CS 4100	Artificial Intelligence (integrative course)	4
CS 4800	Algorithms and Data	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 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 4522	Psychology of Reading	
PSYC 4524	Cognitive Development	
PSYC 4526	Categorization and Reasoning	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4652	Seminar in Ethics in Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	

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	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Additional Requirement

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

Code	Title	Hours
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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 seven general electives.		28

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

Five Years, Three Co-ops in Summer 2/Fall

Year 1					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS 1200	1	CS 2510	4	Vacation	0
CS 1800	4	CS 2511	1		
CS 1801	0	CS 2800	4		
CS 2500	4	CS 2801	1		
CS 2501	1	PSYC 3466	4		
PSYC 1101	4	Elective	4		
ENGW 1111	4				
18		18		0	

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	IS 4300	4	Vacation	0	Co-op	0
CS 3500	4	PSYC 3464	4				
MATH 1341	4	PSYC 3452	4				
PSYC 2320	4	CS 4800	4				
		CS 1210	1				
16		17		0		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	IS 3500	4	Elective	4	Co-op	0
		ENGW 3302	4	Elective	4		
		PSYC undergraduate elective	4				
		Elective	4				
0		16		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
		IS 4800	4	Elective	4		
		PSYC lab elective	4				
		PSYC undergraduate elective	4				
0		16		8		0	

Year 5

Fall	Hours	Spring	Hours
Co-op	0	IS 4900	5
		SOCL 4528	4
		PSYC seminar	4
		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
CS 1800	4	CS 2510	4	Vacation	0	Vacation	0
CS 1801	0	CS 2511	1				
CS 2500	4	CS 2800	4				
CS 2501	1	CS 2801	1				
CS 1200	1	PSYC 3466	4				
PSYC 1101	4	Elective	4				
ENGW 1111	4						
18		18		0		0	

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
IS 2000	4	Co-op	0	Co-op	0	Vacation	0
CS 3500	4						
MATH 1341	4						

PSYC 2320	4				
CS 1210	1				
	17	0	0	0	0
Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
IS 4300	4 Co-op	0 Co-op	0 Elective	4	
CS 4800	4		Elective	4	
PSYC 3464	4				
PSYC 3452	4				
	16	0	0	8	
Year 4					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
IS 3500	4 Co-op	0 Co-op	0 Elective	4	
ENGW 3302	4		Elective	4	
PSYC undergraduate elective	4				
Elective	4				
	16	0	0	8	
Year 5					
Fall	Hours Spring	Hours			
CS 4100	4 IS 4900	5			
IS 4800	4 SOCL 4528	4			
PSYC lab elective	4 PSYC seminar	4			
PSYC undergraduate elective	4 Elective	4			
	16	17			

Total Hours: 134

Information Science and Environmental 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.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1

Computer Science Fundamental Courses

A grade of C– or higher is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	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

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	Earth and Environmental Science Capstone	1
or ENVR 4997	Senior Thesis	

Integrative Course

ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5
-------------------------	------------------------------------------------------	---

Environmental Science Electives

Complete three of the following: 12

ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	
ENVR 3400	Field Geology	
ENVR 3410	Environmental Geochemistry	
ENVR 3418	Geophysics	
ENVR 4106 and ENVR 4107	Coastal Processes and Lab for ENVR 4106	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	
ENVR 4504	Environmental Pollution	
ENVR 4505	Wetlands	
ENVR 5201	Geologic Field Seminar	
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	

Sustainability Focus Courses

PHIL 1180	Environmental Ethics	
Complete two of the following: 8		
ECON 3423	Environmental Economics	
ENVR 4515	Sustainable Development	

ENVR 5202	Environmental Science Field Seminar Abroad
HIST 3412	Global Environmental History
POLS 2390	Science, Technology, and Public Policy
POLS 2395	Environmental Politics and Policy
SOCL 1246	Environment and Society

Additional Requirements

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

Code	Title	Hours
------	-------	-------

Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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
----------------------------------	--	----

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
- Employing Ethical Reasoning
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major

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

Program Requirement

135 total semester hours required

Plan of Study

Five 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	Vacation	0	Vacation	0
CS 1800 and CS 1801	4	CS 2800 and CS 2801	5				
CS 2500 and CS 2501	5	ENVR 1101	4				
ENGW 1111	4	IS 2000	4				
ENVR 1200 and ENVR 1201	5						
	19		18		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 1211 and CHEM 1212 and CHEM 1213	5	ENVR 3300 and ENVR 3301	5	Vacation	0	Co-op	0
CS 3500	4	CS 1210	1				
IS 3500	4	CS 4800	4				
ENVR Elective	4	PHIL 1180	4				
	Elective		4				
	17		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3200	4	Vacation	0	Co-op	0
		MATH 1251	4				
		IS 4800	4				
		ENVR Elective	4				
	0		16		0		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ENVR 5210 or 5250	4	Vacation	0	Vacation	0
		ENGW 3302 or 3315	4				
		Sustainability Focus Course	4				

	Elective	4		
	0	16	0	0
Year 5				
Fall	Hours	Spring	Hours	
ECON 1116	4	ECON 2350	4	
Computing and Social Issues Course	4	ENVR Elective	4	
Sustainability Focus Course	4	ENVR 4900 or 4997	1, 4	
Elective	4	Elective	4	
	16		13-16	

Total Hours: 133-136

Information Science and Journalism, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1

Computer Science Fundamental Courses

A grade of C- or higher is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	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	
IS 4700	Social Information Systems	

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	Journalism Ethics and Issues	

Journalism Courses

A grade of C or higher is required:		
JRNL 1101	Journalism 1: Fundamentals of Reporting	4
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	Interpreting the Day's News	4
JRNL 2350	History of Journalism	4
JRNL 3550	Law of the Press	4
JRNL 4650	Journalism Ethics and Issues	4

Journalism Electives

Complete two JRNL courses. 8

Journalism-Related Requirement

HIST 1130	Introduction to the History of the United States	4
-----------	--------------------------------------------------	---

Major Requirements

Code	Title	Hours
ECON 2350	Statistics	4
MATH 1341	Calculus 1 for Science and Engineering	4
PSYC 1101	Foundations of Psychology	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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

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
- 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 satisfied through co-op.

Required General Electives

Code	Title	Hours
Complete four general electives.		16

Major GPA Requirement

Minimum 2.000 GPA required in all CS, IS, and JRNL courses

Program Requirement

133 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
CS 1200	1 CS 2510	4 Vacation	0 Vacation	0
CS 1800	4 CS 2511	1		
CS 1801	0 CS 2800	4		
CS 2500	4 CS 2801	1		
CS 2501	1 JRNL 1101	4		
JRNL 1150	4 HIST 1130	4		
ENGW 1111	4			
	18	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 CS 3200	4		
JRNL 2201	4 IS 3500 (*)	4		
PSYC 1101	4 JRNL 2301	4		
	CS 4800	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: 134

*Indicates course must be taken in the term listed.

College of Engineering

Website (<http://www.coe.neu.edu>)

Nadine Aubry, PhD, Dean

Richard Harris, MS, Assistant Dean for Academic Scholarship, Mentoring, and Outreach; Director of Multicultural Engineering

Candace A. Martel, MEd, Assistant Dean for Undergraduate Academic Student Services and Director of Engineering Student Services

Rachelle Reisberg, MS, Assistant Dean for Engineering Enrollment and Retention; Director of Women in Engineering

Thomas C. Sheahan, ScD, Senior Associate Dean for Academic Affairs

Undergraduate Student Services Office
220 Snell Engineering Center
617.373.2154
advising@coe.neu.edu (cos@neu.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 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, and cooperative work assignments, students put theory into practice and clarify their professional goals.

The college offers a Bachelor of Science degree with specializations in bioengineering, chemical engineering, civil engineering, computer engineering, electrical 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>). [QY Richard: What about bioengineering?]

Bachelor of Science/Master of Science Dual-Degree Program

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 3.400 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.

GRADUATION REQUIREMENTS

The college reserves the right to amend programs, courses, and degree requirements to fulfill its educational responsibility to respond to relevant changes in the field.

Students must complete all of the requirements in the degree program in which they are candidates. Degree requirements are based upon the year of graduation, determined by the date of entry or reentry into the College of Engineering. Degree requirements and the year of graduation for a degree candidate who fails to make normal academic progress will be subject to review and possible change.

Interdisciplinary Minors

- Entrepreneurial Engineering, Minor (p. 336)
- Materials Science and Engineering, Minor (p. 337)
- Sustainable Energy Systems, Minor (p. 337)

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.

Program Requirements

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

GPA Requirement

2.000 GPA required in the minor

Required Core Courses

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

Electives

Complete one of the following: 4

<i>Venture Creation</i>		
ENTR 2303	Entrepreneurial Marketing and Selling	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3319	Innovation Workshop	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 4501	Business Planning for Technology Ventures	
ENTR 4510	New Venture Laboratory Abroad	
<i>Design</i>		
ARTE 3901	Art and Design Special Topics	
ARTF 1122 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	
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	
<i>Manufacturing</i>		
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

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.

Program Requirements

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

Required Courses

Complete Introduction to Material Science (ME 2340) and one additional course from the following list:

ME 2340	Introduction to Material Science	4
Complete one of the following:		4-5
EECE 3392	Electronic Materials	
CIVE 2260 and CIVE 2261	Civil Engineering Materials and Materials and Measurements Lab	

Electives and Capstone Design

Complete two courses from the following disciplines, and complete 4 semester hours of capstone design (or complete 4 semester hours of elective course work in place of the capstone design project):

Electrical and Computer Engineering

EECE 5606	Micro- and Nanofabrication	4
-----------	----------------------------	---

Chemical Engineering

CHME 4634	Nanomaterials: Thin Films and Structures	4
-----------	------------------------------------------	---

Mechanical and Industrial Engineering

ME 5600	Materials Processing and Process Selection	4
ME 5645	Environmental Issues in Manufacturing and Product Use	4

Chemistry and Chemical Biology

CHEM 3501	Inorganic Chemistry	4
CHEM 5687	Principles of Solid State Chemistry	3

Capstone Design

Students electing capstone design should complete one of the following: 4-5

EECE 4790	Electrical and Computer Engineering Capstone 1	
CHME 4703	Capstone Design 2: Chemical Process Design	
MEIE 4702	Capstone Design 2	

GPA Requirement

2.000 GPA required in the minor

Sustainable Energy Systems, Minor**Program 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 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 CHME 2320 or ME 2380 toward the sustainable energy systems minor since these courses are required in their respective majors.
- Chemical engineering students may not count CHME 2308 toward the sustainable energy systems minor since this course is required in their major.
- Industrial engineering students may not count IE 4512 toward the sustainable energy systems minor since this course is required in their major.

Core Energy Science, Technology Courses

Complete two of the following: 8

CHME 2320	Chemical Engineering Thermodynamics 1	
or ME 2380	Thermodynamics	
GE 3300	Energy Systems: Science, Technology, and Sustainability (CIVE students may not count this course toward a sustainable energy minor if used to fulfill a major requirement.)	
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	

ENSY 5000	Fundamentals of Energy System Integration
-----------	-------------------------------------------

Environmental/Economics/Policy Courses

Complete one of the following:

4

CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure
ECON 3423	Environmental Economics
ECON 3425	Energy Economics
ENR 3325	Sustainable Innovation
ENR 3336	Resource Management and Renewable Energy in Iceland
ENVR 4515	Sustainable Development
FINA 2720	Sustainability in the Business Environment
ME 5645	Environmental Issues in Manufacturing and Product Use
POLS 3410	Nontraditional Security Issues
SOCL 3485	Environment, Technology, and Society

Electives

Complete two of the following:

8

CHME 2308	Conservation Principles in Chemical Engineering (Chemical engineering students may not count this course toward a sustainable energy minor if used to fulfill a major requirement.)
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
EECE 5696	Energy Harvesting Systems
GE 3300	Energy Systems: Science, Technology, and Sustainability (CIVE students may not count this course toward a sustainable energy minor if used to fulfill a major requirement.)
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 4680	Energy Systems

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>)

Lee Makowski, PhD

Professor and Chair

212A Lake Hall
617.373.7805

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 engineering. 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.

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.

The bioengineering program seeks to enable students to apply knowledge of mathematics, science, and engineering to design of novel systems interfacing, replacing, augmenting, or repairing living systems; to conduct bioengineering experiments, as well as to analyze and interpret data; to design a system, component, or biological process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, safety, manufacturability, and sustainability; to function on teams, including multidisciplinary teams; to identify, formulate, and solve bioengineering problems; to understand professional and ethical responsibility, including protecting the public and the environment by performing work in a safe and environmentally conscious manner; to communicate effectively; to understand the impact of engineering solutions in a global and societal context; to recognize the need for and the ability to engage in lifelong learning; to understand professional behavior, culture, expectations, and contemporary issues; and to use the techniques, skills, and modern engineering tools intrinsic to bioengineering practice.

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. 339)

Dual Degree

- Bioengineering, BSBioE/ Engineering Management, MS (p. 342)
- Bioengineering, BSBioE/ MS (p. 346)

Bioengineering, BSBioE

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum required in BIOE courses

Mathematics/Science Requirement

Complete 37 semester hours in mathematics and science as indicated below.

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	

Total Hours 37

Bioengineering Core Requirements

Complete 38 semester hours in bioengineering core requirements as indicated below.

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		4

Supplemental Credit

3 semester hours from the following course count toward the bioengineering core requirements:

GE 1501	Cornerstone of Engineering 1	
---------	------------------------------	--

2 semester hours from the following course count toward the bioengineering core requirements:

GE 1502	Cornerstone of Engineering 2	
---------	------------------------------	--

Total Hours 38

Concentration

Complete 20 semester hours in one of the following four concentrations. Requirements for the concentrations are listed below (p. 340).

- Bioimaging and Signal Processing
- Cell and Tissue Engineering
- Biomechanics
- Biomedical Devices

Professional Development

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

Partial credit from the following courses count toward requirements above:

GE 1501	Cornerstone of Engineering 1
GE 1502	Cornerstone of Engineering 2

Additional NUPATH Courses

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 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

Required Courses

BIOE 5320	Advanced Biomedical Measurements and Instrumentation	4
BIOE 5235	Biomedical Imaging	4

Elective Courses

Complete three of the following:	12
BIOE 2060	Special Topics in Bioengineering

BIOE 4991	Research
BIOE 4992	Directed Study
BIOL 5581	Biological Imaging
EECE 2520	Fundamentals of Linear Systems
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

Required Courses

BIOE 5410	Molecular Bioengineering	4
BIOE 5420	Cellular Engineering	4

Elective Courses

Complete three of the following: 12-15

BIOE 2060	Special Topics in Bioengineering
BIOE 4991	Research
BIOE 4992	Directed Study
BIOE 5430	Principles and Applications of Tissue Engineering
BIOE 5820	Biomaterials
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301
BIOL 2323 and BIOL 2324	and
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313
CHME 5630	Biochemical Engineering
CHME 5899	Biotechnology
ME 5667	Solid Mechanics of Cells and Tissues

CONCENTRATION IN BIOMECHANICS

Required Courses

ME 5665	Musculoskeletal Biomechanics	4
BIOE 5630	Physiological Fluid Mechanics	4

Elective Courses

Complete three of the following: 12

BIOE 2060	Special Topics in Bioengineering
BIOE 4991	Research
BIOE 4992	Directed Study
BIOE 5820	Biomaterials
ME 2350	Engineering Mechanics and Design
ME 2355	Mechanics of Materials
ME 5667	Solid Mechanics of Cells and Tissues
ME 4555	System Analysis and Control

CONCENTRATION IN BIOMEDICAL DEVICES

Required Courses

BIOE 5810	Design of Biomedical Instrumentation	4
BIOE 5820	Biomaterials	4

Elective Courses

Complete three of the following: 12-13

BIOE 2200	
BIOE 2060	Special Topics in Bioengineering

BIOE 4991	Research
BIOE 4992	Directed Study
BIOE 5850	Design of Implants
CHME 5160	Drug Delivery: Engineering Analysis
EECE 5664	Biomedical Signal Processing
ME 2340 and ME 2341	Introduction to Material Science and Lab for ME 2340
ME 4555	System Analysis and Control

BIOE elective	4		
General elective	4		
<hr/>			
0	17	8	0

Year 5

Fall	Hours Spring	Hours
Co-op	BIOE 4792	4
BIOE elective		4
General elective		4
General elective		4
<hr/>		
0	16	

Total Hours: 136

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	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		
<hr/>				
	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			
<hr/>				
	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		4		
ENGW 3302 (WD)		4		
<hr/>				
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		4 General elective	4	
BIOE elective		4		

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		
<hr/>				
	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			
<hr/>				
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	4				
ENGW 3302 (WD)	4				
	17	0	0		8

Year 5					
Fall	Hours Spring	Hours			
BIOE 4792	4 BIOE elective	4			
BIOE elective	4 BIOE elective	4			
BIOE elective	4 General elective	4			
General elective	4 General elective	4			
	16	16			

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 1341 (FQ)	4 MATH 1342 (FQ)	4 Vacation	0 Vacation	0	
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	
GE 2361	4 BIOE 2000	1 BIOE 3310	4 Co-op	0	
BIOL 1115 (ND)	4 BIOE 2350	4 General elective	4		
BIOL 1116	1 BIOE 2355	4			
PHYS 1175 (ND)	3 CHEM 2311	4			
PHYS 1176 (AD)	1 CHEM 2312	1			
PHYS 1177	1 CHEM 2319	0			
BIOE 2365 (AD)	4 General elective	4			
BIOE 2366	1				
	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 BIOE elective	4	
	BIOE 3380	4		
	BIOE elective	4		
	BIOE elective	4		
	0	17	8	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours	
Co-op	0 BIOE 4792	4 The following credits are required via AP credit, course overloading, or courses taken during co-op:		
	General elective	4 General elective	4	
	BIOE elective	4 General elective	4	
	BIOE elective	4 General elective	4	
		ENGW 3302 (WD)	4	
	0	16	16	

Total Hours: 136

Bioengineering, BSBioE/Engineering Management, MS

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Major GPA Requirements

Minimum 2.000 required in Undergraduate BIOE courses

3.400 GPA required to enter the program

Minimum 3.000 GPA required in all graduate courses

Mathematics/Science Requirement

Complete 37 semester hours in mathematics and science as indicated below.

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:

GE 1502	Cornerstone of Engineering 2	1
---------	------------------------------	---

Bioengineering Core Requirements

Complete 38 semester hours in bioengineering core requirements as indicated below.

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		4

Supplemental Credit

3 semester hours from the following course count toward the bioengineering core requirements:

GE 1501	Cornerstone of Engineering 1	3
---------	------------------------------	---

2 semester hours from the following course count toward the bioengineering core requirements:

GE 1502	Cornerstone of Engineering 2	2
---------	------------------------------	---

Concentration

Complete 20 semester hours in one of the following four concentrations. Requirements for the concentrations are listed below (p. 344).

- Bioimaging and Signal Processing
- Cell and Tissue Engineering
- Biomechanics
- Biomedical Devices

Professional Development

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

Partial credit from the following courses count toward the requirements above:

GE 1501	Cornerstone of Engineering 1	
GE 1502	Cornerstone of Engineering 2	

Additional NUPath Courses

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 Elective

Complete three academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours. 12

Graduate Courses taken as an undergraduate student

Required Graduate Courses

EMGT 5220	Engineering Project Management	4
EMGT 6225	Economic Decision Making	4
IE 6200	Engineering Probability and Statistics	4
MEIE 6850	Research Seminar in Mechanical and Industrial Engineering	0
OR 6205	Deterministic Operations Research	4

Graduate Technical Electives

Complete 16 semester hours from the following

CSYE 6200	Concepts of Object-Oriented Design	4
CSYE 6205	Concepts of Object-Oriented Design with C++	4
CSYE 6210	Component Software Development	4
CSYE 6220	Enterprise Software Design	4
CSYE 7230	Software Engineering	4
CSYE 7270	Building Virtual Environments	4
CSYE 7280	User Experience Design and Testing	4
ENSY 5000	Fundamentals of Energy System Integration	4
EMGT 5300	Engineering/Organizational Psychology	4
EMGT 6305	Financial Management for Engineers	4

EMGT 7978	Independent Study	1-4	SCHM 6212	Executive Roundtable in Supply Chain Management	3
ENTR 6200	Enterprise Growth and Innovation	3	SCHM 6214	Sourcing and Procurement	3
ENTR 6212	Business Planning for New Ventures	3	SCHM 6215	Supply Chain Analytics	3
ENTR 6218	Business Model Design and Innovation	3	SCHM 6221	Sustainability and Supply Chain Management	3
ENTR 6219	Financing Ventures from Early Stage to Exit	3	SCHM 6222	Managing Emerging Issues in Supply Chain Management	3
GE 5100	Product Development for Engineers	4	SCHM 6223	Managing Healthcare Supply Chain Operations	3
IE 5400	Healthcare Systems Modeling and Analysis	4	SCHM 6224	Demand Planning and Forecasting	3
IE 5500	Systems Engineering in Public Programs	4	TECE 6200	Innovation and Entrepreneurial Growth	3
IE 5617	Lean Concepts and Applications	4	TECE 6222	Emerging and Disruptive Technologies	3
IE 5620	Mass Customization	4	TECE 6230	Entrepreneurial Marketing and Selling	3
IE 5640	Data Mining for Engineering Applications	4	TECE 6250	Lean Design and Development	3
IE 6300	Manufacturing Methods and Processes	4	TECE 6300	Managing a Technology-Based Business	3
IE 7200	Supply Chain Engineering	4	TECE 6340	The Technical Entrepreneur as Leader	3
IE 7215	Simulation Analysis	4	TELE 5310	Fundamentals of Communication Systems	4
IE 7255	Manufacturing Processes	4	TELE 5330	Data Networking	4
IE 7270	Intelligent Manufacturing	4			
IE 7275	Data Mining in Engineering	4			
IE 7280	Statistical Methods in Engineering	4			
IE 7285	Statistical Quality Control	4			
IE 7290	Reliability Analysis and Risk Assessment	4			
IE 7315	Human Factors Engineering	4			
IE 7615	Neural Networks in Engineering	4			
INFO 6210	Data Management and Database Design	4			
INFO 6215	Business Analysis and Information Engineering	4			
INFO 6245	Planning and Managing Information Systems Development	4			
INFO 7245	Agile Software Development	4			
INFO 7260	Business Process Engineering	4			
INFO 7275	Advanced Database Management Systems	4			
INFO 7285	Organizational Change and IT	4			
INFO 7290	Data Warehousing and Business Intelligence	4			
INFO 7330	Information Systems for Healthcare-Services Delivery	4			
INFO 7365	Enterprise Architecture Planning and Management	4			
INFO 7390	Advances in Data Sciences and Architecture	4			
MGSC 6206	Management of Service and Manufacturing Operations	3			
OR 7230	Probabilistic Operation Research	4			
OR 7235	Inventory Theory	4			
OR 7240	Integer and Nonlinear Optimization	4			
OR 7245	Network Analysis and Advanced Optimization	4			
OR 7250	Multi-Criteria Decision Making	4			
OR 7310	Logistics, Warehousing, and Scheduling	4			

Course Work That Does Not Count Toward That 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

152 total semester hours required

Concentrations

CONCENTRATION IN BIOIMAGING AND SIGNAL PROCESSING

Required Courses

BIOE 5320	Advanced Biomedical Measurements and Instrumentation	4
BIOE 5235	Biomedical Imaging	4

Elective Courses

Complete three of the following:		12
BIOE 2060	Special Topics in Bioengineering	
BIOE 4991	Research	
BIOE 4992	Directed Study	
BIOL 5581	Biological Imaging	
EECE 2520	Fundamentals of Linear Systems	
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

Required Courses

BIOE 5410	Molecular Bioengineering	4
BIOE 5420	Cellular Engineering	4

Elective Courses

Complete three of the following:		12-15
BIOE 2060	Special Topics in Bioengineering	
BIOE 4991	Research	
BIOE 4992	Directed Study	
BIOE 5430	Principles and Applications of Tissue Engineering	
BIOE 5820	Biomaterials	
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	
BIOL 2323 and BIOL 2324	and	
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	
CHME 5630	Biochemical Engineering	
CHME 5899	Biotechnology	
ME 5667	Solid Mechanics of Cells and Tissues	

CONCENTRATION IN BIOMECHANICS

Required Courses

ME 5665	Musculoskeletal Biomechanics	4
BIOE 5630	Physiological Fluid Mechanics	4

Elective Courses

Complete three of the following:		12
BIOE 2060	Special Topics in Bioengineering	
BIOE 4991	Research	
BIOE 4992	Directed Study	
BIOE 5820	Biomaterials	
ME 2350	Engineering Mechanics and Design	
ME 2355	Mechanics of Materials	
ME 5667	Solid Mechanics of Cells and Tissues	
ME 4555	System Analysis and Control	

CONCENTRATION IN BIOMEDICAL DEVICES

Required Courses

BIOE 5810	Design of Biomedical Instrumentation	4
BIOE 5820	Biomaterials	4

Elective Courses

Complete three of the following:		12-13
BIOE 2200		
BIOE 2060	Special Topics in Bioengineering	
BIOE 4991	Research	
BIOE 4992	Directed Study	
BIOE 5850	Design of Implants	
CHME 5160	Drug Delivery: Engineering Analysis	
EECE 5664	Biomedical Signal Processing	
ME 2340 and ME 2341	Introduction to Material Science and Lab for ME 2340	
ME 4555	System Analysis and Control	

Plan of Study

Five 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	Vacation	0	Vacation	0

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
GE 2361	4	BIOE 2000	1	Vacation	0	Co-op	0
BIOL 1115 (ND)	4	CHEM 2311	4				
BIOL 1116	1	CHEM 2312	1				
PHYS 1175 (ND)	3	CHEM 2319	0				
PHYS 1176 (AD)	1	BIOE 2355	4				
PHYS 1177	1	BIOE 2350	4				
BIOE 2365 (AD)	4	General elective	4				
BIOE 2366	1						
		19	18	0	0		

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ENGW 3302 (WD)	4	General elective 1	4	Co-op	0
		BIOE 3380	4	BIOE 3310	4		
		BIOE 3210	4				
		BioE Elective	4				
		0	16	8	0		

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Bioengineering Technology elective 2	4	BIOE 4790 (EI, CE)	4	Vacation	0
		Bioengineering Technology elective 3	4	Engineering Management Graduate Elective	4		
		IE 6200	4				
		EMGT 5220	4				
		BIOE 3000	1				
		0	17	8	0		

Year 5

Fall	Hours	Spring	Hours
OR 6205	4	BIOE 4792	4
Engineering Management Graduate elective	4	EMGT 6225	4
Engineering Management Graduate elective	4	Engineering Management Graduate elective	4

Bioengineering Technology elective 4	4	Bioengineering Technology elective 5	4
16		16	

Total Hours: 152

Five 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	Vacation	4	Vacation	4
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
GE 2361	4	Co-op		Co-op		Vacation	
BIOL 1115 (ND)	4						
BIOL 1116	1						
PHYS 1175 (ND)	3						
PHYS 1176 (AD)	1						
PHYS 1177	1						
BIOE 2365 (AD)	4						
BIOE 2366	1						
BIOE 2000	1						
20		0		0		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2311	4	Co-op		Co-op		General elective 1	4
CHEM 2312	1					BIOE 3310	4
CHEM 2319	0						
BIOE 2355	4						
BIOE 2350	4						
General elective	4						
17		0		0		8	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3302 (WD)	4	IE 6200	4	Vacation	4	BIOE 4790 (EI, CE)	4
BIOE 3380	4	EMGT 5220	4			Engineering Management Graduate elective	4

BIOE 3210	4	Bioengineering Technology elective 2	4
Bioengineering Technology elective 1	4	Bioengineering Technology elective 3	4
BIOE 3000	1		
17		16	
		0	
		8	

Year 5

Fall	Hours	Spring	Hours
BIOE 4792	4	EMGT 6225	4
OR 6205	4	Engineering Management Graduate elective	4
Engineering Management Graduate elective	4	Engineering Management Graduate elective	4
Bioengineering Technology elective 4	4	Bioengineering Technology elective 5	4
16		16	

Total Hours: 152

Bioengineering, BSBioE/MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Major GPA Requirements

Minimum 2.000 required in Undergraduate BIOE courses

3.400 GPA required to enter the program

Minimum 3.000 GPA required in all graduate courses

Mathematics/Science Requirement

Complete 37 semester hours in mathematics and science as indicated below.

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	
---------	------------------------------	--

Bioengineering Core Requirements

Complete 38 semester hours in bioengineering core requirements as indicated below.

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		4

Supplemental Credit

3 semester hours from the following course count toward the bioengineering core requirements: 3

GE 1501	Cornerstone of Engineering 1	
---------	------------------------------	--

2 semester hours from the following course count toward the bioengineering core requirements: 2

GE 1502	Cornerstone of Engineering 2	
---------	------------------------------	--

Concentration

One undergraduate-level course and four graduate-level courses should be taken in one of the following four concentrations for a total of 20 semester hours. Requirements for the concentrations are listed below (p.).

- Bioimaging and Signal Processing
- Cell and Tissue Engineering
- Biomechanics
- Biomedical Devices

Professional Development

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

The remaining credit from each of the following courses will apply to the professional development area: 2

GE 1501	Cornerstone of Engineering 1	
GE 1502	Cornerstone of Engineering 2	

Additional NUPath Courses

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 Elective

Complete six academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours. 24

Graduate Courses taken toward the PlusOne program

BIOE 5000		1
BIOE 7390	Seminar	0

Complete four courses that will count toward the MS in Bioengineering in consultation with your advisor. 16

Course Work That Does Not Count Toward That 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.

CONCENTRATION IN BIOIMAGING AND SIGNAL PROCESSING

Required Courses

BIOE 5320	Advanced Biomedical Measurements and Instrumentation	4
BIOE 5235	Biomedical Imaging	4

Elective Courses

Complete three of the following: 12

BIOE 2060	Special Topics in Bioengineering	
BIOE 4991	Research	
BIOE 4992	Directed Study	
BIOL 5581	Biological Imaging	
EECE 2520	Fundamentals of Linear Systems	
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*Required Courses*

BIOE 5410	Molecular Bioengineering	4
BIOE 5420	Cellular Engineering	4

Elective Courses

Complete three of the following: 12-15

BIOE 2060	Special Topics in Bioengineering
BIOE 4991	Research
BIOE 4992	Directed Study
BIOE 5430	Principles and Applications of Tissue Engineering
BIOE 5820	Biomaterials
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301 and
BIOL 2323 and BIOL 2324	
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313
CHME 5630	Biochemical Engineering
CHME 5899	Biotechnology
ME 5667	Solid Mechanics of Cells and Tissues

CONCENTRATION IN BIOMECHANICS*Required Courses*

ME 5665	Musculoskeletal Biomechanics	4
BIOE 5630	Physiological Fluid Mechanics	4

Elective Courses

Complete three of the following: 12

BIOE 2060	Special Topics in Bioengineering
BIOE 4991	Research
BIOE 4992	Directed Study
BIOE 5820	Biomaterials
ME 2350	Engineering Mechanics and Design
ME 2355	Mechanics of Materials
ME 5667	Solid Mechanics of Cells and Tissues
ME 4555	System Analysis and Control

CONCENTRATION IN BIOMEDICAL DEVICES*Required Courses*

BIOE 5810	Design of Biomedical Instrumentation	4
BIOE 5820	Biomaterials	4

Elective Courses

Complete three of the following: 12-13

BIOE 2200	
BIOE 2060	Special Topics in Bioengineering
BIOE 4991	Research
BIOE 4992	Directed Study
BIOE 5850	Design of Implants
CHME 5160	Drug Delivery: Engineering Analysis
EECE 5664	Biomedical Signal Processing

ME 2340 and ME 2341	Introduction to Material Science and Lab for ME 2340
ME 4555	System Analysis and Control

Program Requirement

153 total semester hours required

Plan of Study**Five Years, Two Co-ops in Summer 2/Fall****Year 1**

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CHEM 1151	4 General elective	4 Vacation	Vacation	
CHEM 1153	0 GE 1502 (ER)	4		
GE 1000	1 MATH 1342 (FQ)	4		
GE 1501	4 PHYS 1171 (ND)	3		
MATH 1341 (FQ)	4 PHYS 1172 (AD)	1		
ENGW 1111 (WF)	4 PHYS 1173	1		
	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	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 Vacation	
	Graduate Elective	4 General Elective	4	
	Graduate Elective	4		

Graduate Elective	4			
General Elective	4			
BIOE 5000	1			
BIOE 7390	0			
	0	18	8	0

Year 5

Fall	Hours Spring	Hours
Graduate Elective	4 BIOE 4792	4
Graduate Elective	4 Graduate Elective	4
Graduate Elective	4 Graduate Elective	4
General Elective	4 General Elective	4
BIOE 7390	0 BIOE 7390	0
	16	16

Total Hours: 153

Five 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 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 Graduate Elective	4 Vacation	BIOE 4790 (EI, CE)	4
BIOE 3210	4 Graduate Elective	4	General Elective	4
BIOE 3380	4 Graduate Elective	4		
BioE Elective	4 General Elective	4		
ENGW 3302 (WD)	4 BIOE 5000	1		
BIOE 7390	0 BIOE 7390	0		
	17	17	0	8

Year 5

Fall	Hours Spring	Hours
BIOE 4792	4 Graduate Elective	4
Graduate Elective	4 Graduate Elective	4
Graduate Elective	4 Graduate Elective	4
General Elective	4 General Elective	4
BIOE 7390	0 BIOE 7390	0
	16	16

Total Hours: 153

Chemical Engineering

Website (<http://www.northeastern.edu/che>)

Thomas J. Webster, PhD

Professor and Chair
Art Zafiropoulo Chair in Engineering

Ronald J. Willey, PhD

Professor and Vice Chair

313 Snell Engineering Center
617.373.2989
617.373.2209 (fax)

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.

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:

1. Function successfully in a variety of fields in chemical engineering or in advanced study that uses the problem-solving skills taught in chemical engineering.
2. Identify problems, collect necessary information, and analyze data to draw appropriate conclusions and to make informed decisions.
3. Function effectively in a diverse workplace using interpersonal and communicative skills gained from their chemical engineering training.
4. Recognize an economic, environmental, health and safety, or sustainability situation in need of improvement, then make suggestions that improve this situation.

The faculty of the chemical engineering program is committed to providing a practice-oriented education through active learning and by drawing connections between classroom learning and co-op experiences. The educational curriculum provides fundamentals in mathematics, physical sciences, and engineering science as well as real-world design and laboratory experiences. Through the university's general education requirements, students gain awareness of the impact of engineering decisions in a broader societal and ethical context. Cooperative education offers students the opportunity to integrate practical workplace knowledge with classroom learning so the educational experiences are synergistic and deepen the learning process. The chemical engineering community encourages professional development through active participation and leadership in student organizations, professional societies, and departmental activities. As a result, the chemical engineering program prepares successful students for industrial careers; graduate programs; or professional medical, law, and business schools.

Through faculty expertise and scholarship, a rigorous set of academic courses, and real-world cooperative education experiences, the chemical engineering program seeks to enable students to apply knowledge of mathematics, science, and engineering in the general field of chemical engineering; design and conduct engineering experiments, as well as analyze and interpret data; design a system, component, or chemical process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability; function on teams, including multidisciplinary teams; identify, formulate, and solve chemical engineering problems; understand professional and ethical responsibility, including protecting the public and the environment by performing work in a safe and environmentally conscious manner; communicate effectively; understand the impact of engineering solutions in a global

and societal context; recognize the need for and the ability to engage in lifelong learning; understand professional behavior, culture, expectations, and contemporary issues; and use the techniques, skills, and modern engineering tools necessary to chemical engineering practice.

The chemical engineering curriculum is periodically evaluated and revised to ensure that graduates of the program are given every opportunity for future success as professional chemical engineers and are prepared for graduate or professional school.

Programs

Bachelor of Science in Chemical Engineering (BSChE)

- Chemical Engineering (p. 350)
- Chemical Engineering and Physics (p. 353)

Dual Degrees

- BS/MS in Chemical Engineering (p. 355)
- Chemical Engineering, BS/ Engineering Management, MS (p. 358)

Minor

- Biochemical Engineering (p. 361)

Chemical Engineering, BSChE

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum required in CHME courses

Mathematics/Science Requirement

Complete 31 semester hours in mathematics and science as indicated below.

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
---------------------------------------------	---------------------------------------------------------------------------------------------------------	---

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 science as indicated below:

BIOL 1111 or BIOL 1115	General Biology 1 General Biology 1 for Engineers	4
---------------------------	------------------------------------------------------	---

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 2323 and BIOL 2324	and	
BIOL 2327	Human Parasitology	
BIOL 3603	Mammalian Systems Physiology	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
EEMB 2610 and EEMB 2611	Plant Biology and Lab for EEMB 2610	
CHEM 2321 and CHEM 2322	Analytical Chemistry and Lab for CHEM 2321	
CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	
CHEM 2341 and CHEM 2342	Forensic Chemistry 1 and Lab for CHEM 2341	
CHEM 3403 and CHEM 3404	Quantum Chemistry and Spectroscopy and Lab for CHEM 3403	
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	

Engineering

Complete 49 semester hours in engineering as indicated below

CHME 2308	Conservation Principles in Chemical Engineering	4
CHME 2310	Transport Processes 1	4
CHME 2311	Lab for CHME 2310	2
CHME 2320	Chemical Engineering Thermodynamics 1	4
CHME 3312	Transport Processes 2 and Separations	4
CHME 3313	Lab for CHME 3312	2
CHME 3322	Chemical Engineering Thermodynamics 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

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

2 semester hours from the following course count toward the engineering requirement: 2

GE 1502 Cornerstone of Engineering 2

Professional Development

Complete 5 semester hours in professional development as indicated below

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 each of the following courses will apply to the professional development area: 2

GE 1501 Cornerstone of Engineering 1

GE 1502 Cornerstone of Engineering 2

Additional NUPath Courses**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 six academic, nonremedial, nonrepetitive courses, 24 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

135 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
CHEM 2311	4 CHME 2000	1 Vacation	0 Co-op	0
CHEM 2312	1 CHME 2320	4		
CHEM 2319	0 CHME 2310	4		
CHME 2308	4 CHME 2311 (AD, WI)	2		
MATH 2321 (FQ)	4 MATH 2341	4		
PHYS 1155 (ND)	3 CHEM 2313	4		
PHYS 1156 (AD)	1 CHEM 2314	1		
PHYS 1157	1 CHEM 2320	0		
	18	20	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CHME 3313 (AD, WI)	2 General Elective	4 Co-op	0
	CHME 3312	4 ENGW 3302 (WD)	4	
	CHME 3322	4		

BIOL 1115 (ND)	4			
	0	14	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 4510	4 General Elective	4	
	CHME 4701	4		
	General Elective	4		
	Advanced Science Elective	4		
	0	17	8	0

Year 5

Fall	Hours Spring	Hours
Co-op	0 CHME 4512	4
	CHME 4703 (EI, CE)	4
	General Elective	4
	Advanced Engineering 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
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		CHME 2320	4
CHEM 2319	0		CHEM 2320	0
CHME 2000	1			
PHYS 1155 (ND)	3			
PHYS 1156 (AD)	1			
PHYS 1157	1			

CHME 2308	4				
	19	0	0		9
Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
BIOL 1115 (ND)	4 Co-op	0 Co-op	0 ENGW 3302 (WD)	4	
CHME 2310	4		General elective	4	
CHME 2311 (AD, WI)	2				
CHME 3322	4				
MATH 2341	4				
	18	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				
CHME 3313 (AD, WI)	2				
General Elective	4				
Advanced Science Elective	4				
	15	0	0		0
Year 5					
Fall	Hours Spring	Hours			
CHME 4510	4 CHME 4512	4			
CHME 4701	4 CHME 4703 (EI, CE)	4			
General Elective	4 General Elective	4			
General Elective	4 Advanced Engineering Elective	4			
	16	16			

Total Hours: 135

Chemical Engineering and Physics, BSCHE

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Chemistry Requirement

Complete 22 semester hours in advanced chemistry as indicated below.

Code	Title	Hours
BIOL 1111 or BIOL 1115	General Biology 1 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
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	

Total Hours 22

Engineering

Complete 49 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 and CHME 2311	Transport Processes 1 and Lab for CHME 2310	6
CHME 3312 and CHME 3313	Transport Processes 2 and Separations and Lab for CHME 3312	6
CHME 2320	Chemical Engineering Thermodynamics 1	4
CHME 3322	Chemical Engineering Thermodynamics 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 from any of the following subject areas: CHME, CIVE, EECE, ME, IE, MEIE, and ENGR	4
-----------------------------------------------------------------------------------------------------------------------------------------	---

Supplemental Credit

3 semester hours from the following course count toward the engineering requirement: GE 1501 Cornerstone of Engineering 1	3
2 semester hours from the following course count toward the engineering requirement: GE 1502 Cornerstone of Engineering 2	2

Professional Development

Complete 5 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 each of the following courses will apply to the professional development area:		2
GE 1501	Cornerstone of Engineering 1	
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

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	
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	PHYS 1155 (ND)	4	Vacation	3	0
CHEM 1151	4	PHYS 1151 (ND)	4	PHYS 1156 (AD)	3		1	
CHEM 1153	0	PHYS 1152 (AD)	1	PHYS 1157	1		1	
GE 1000	1	PHYS 1153	1	General elective			4	
GE 1501	4	GE 1502 (ER)	4					
ENGW 1111 (WF)	4	General elective	4					
		17		17		9		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
CHME 2308	4	CHME 2000	1	Vacation	0	Co-op	0	
CHEM 2311	4	CHME 2310	4					
CHEM 2312	1	CHME 2311 (AD, WI)	2					
CHEM 2319	0	CHME 2320	4					
MATH 2321 (FQ)	4	MATH 2341	4					
PHYS 2371 (ND)	3	PHYS 2303 (ND)	4					
PHYS 2372 (EI)	1							
		17		19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
Co-op	0	BIOL 1115 (ND)	4	ENGW 3302 (WD)	4	Co-op	0	
		CHEM 2320	0	PHYS 3600 (ND, AD, WI)	4			
		CHEM 2313	4					
		CHEM 2314	1					
		CHME 3312	4					
		CHME 3313 (AD, WI)	2					
		CHME 3322	4					
		0		19		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 4510	4		
	CHME 4701	4		
	PHYS 3601 (ND)	4		
	PHYS 3602 (ND)	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

Chemical Engineering, BS/MS**Program Requirements**

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

Minimum 2.000 GPA required in CHME courses

Minimum 3.000 GPA required in all graduate courses

Mathematics/Science Requirement

Complete 31 semester hours in mathematics and science as indicated below.

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

Supplemental Credit

1 semester hour from the following course counts toward the mathematics/science requirement:

GE 1502 Cornerstone of Engineering 2

Advanced Science Requirement

Complete 18 semester hours in advanced science as indicated below:

BIOL 1111 or BIOL 1115	General Biology 1 or General Biology 1 for Engineers	4
------------------------	------------------------------------------------------	---

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: 4-5

BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	
BIOL 2323 and BIOL 2324	and	
BIOL 2327	Human Parasitology	
BIOL 3603	Mammalian Systems Physiology	
CHEM 2321 and CHEM 2322	Analytical Chemistry and Lab for CHEM 2321	
CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	
CHEM 2341 and CHEM 2342	Forensic Chemistry 1 and Lab for CHEM 2341	
CHEM 3403 and CHEM 3404	Quantum Chemistry and Spectroscopy and Lab for CHEM 3403	
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

Engineering

Complete 48 semester hours in engineering as indicated below

CHME 2308	Conservation Principles in Chemical Engineering	4
CHME 2310 and CHME 2311	Transport Processes 1 and Lab for CHME 2310	6
CHME 2320	Chemical Engineering Thermodynamics 1	4
CHME 3312 and CHME 3313	Transport Processes 2 and Separations and Lab for CHME 3312	6
CHME 3322	Chemical Engineering Thermodynamics 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:

GE 1501	Cornerstone of Engineering 1
---------	------------------------------

2 semester hours from the following course count toward the engineering requirement:

GE 1502	Cornerstone of Engineering 2
---------	------------------------------

Professional Development

Complete 5 semester hours in professional development as indicated below

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 each of the following courses will apply to the professional development area:

GE 1501	Cornerstone of Engineering 1
---------	------------------------------

GE 1502	Cornerstone of Engineering 2
---------	------------------------------

Additional NUpath Courses

Complete 16 semester hours in core courses as indicated below

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	

Required Open Electives 8

NUpath requirements, Interpreting Culture (IC), Societies and Institutions (SI), Differences and Diversity (DD), and Ethical Reasoning (ER) 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 Open Electives and/or General Electives to do so. Open and General Electives are academic, nonremedial, nonrepetitive courses.

Required General Elective

Complete one academic, nonremedial, nonrepetitive course equivalent to 4 semester hours. 4

Graduate Courses taken toward the PlusOne program

Required Graduate Courses

CHME 7320	Chemical Engineering Mathematics	4
CHME 7330	Chemical Engineering Thermodynamics	4
CHME 7340	Chemical Engineering Kinetics	4
CHME 7350	Transport Phenomena	4

Complete 16 semester hours from the following course list. One course must be a Chemical Engineering Special Topics course and will count as an Advanced Engineering Elective. 16

CHME 5204	Heterogeneous Catalysis
CHME 5630	Biochemical Engineering
CHME 5699	Special Topics in Chemical Engineering
CHME 5984	Research
CHME 7201	Fluid Mechanics
CHME 7202	Chemical Process Heat Transfer
CHME 7205	Numerical Techniques in Chemical Engineering
CHME 7210	Advanced Chemical Engineering Calculations
CHME 7220	Electronic Materials, Thin Films, and Nanostructures
CHME 7221	Thin Film Technology
CHME 7222	Principals of Membrane Processes
CHME 7231	Chemical Process Dynamics and Control
CHME 7240	Polymer Science
CHME 7260	Special Topics in Chemical Engineering
CHME 7261	Special Topics in Chemical Engineering
CHME 7978	Independent Study
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage
ENGR 6150	Nanotechnology in Engineering

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 Requirements

151 semester hours required

Plan of Study**Five 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 Vacation	Vacation	
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 Open 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	Co-op	
CHEM 2311	4 CHEM 2313	4		
CHEM 2312	1 CHEM 2314	1		
CHEM 2319	0 CHEM 2320	0		
PHYS 1155 (ND)	3 CHME 2000	1		
PHYS 1156 (AD)	1 CHME 2310	4		
PHYS 1157	1 CHME 2311 (AD, WI)	2		
CHME 2308	4 CHME 2320	4		
	18	20	0	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	BIOL 1115 (ND)	4 ENGW 3302 or 3315 (WD)	4 Co-op	
	CHME 3312	4 Open elective	4	
	CHME 3313 (AD, WI)	2		
	CHME 3322	4		
	0	14	8	0
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	CHME 3000	1 Graduate Elective	4 Vacation	
	CHME 4510	4 Graduate Elective	4	
	CHME 4701	4		
	CHME 7350	4		
	Advanced Science Elective	4		
	0	17	8	0
Year 5				
Fall	Hours Spring	Hours		
CHME 7320	4 CHME 4512	4		

CHME 7330	4 CHME 4703 (EI, CE)	4		
General Elective	4 CHME 7340	4		
Graduate Elective	4 Graduate CHME Special Topics	4		
	16	16		

Total Hours: 151

Five 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 Vacation	Vacation	
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 Open elective	4		
	17	17	0	0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MATH 2321 (FQ)	4 Co-op	Co-op	CHEM 2313	4
CHEM 2311	4		CHEM 2314	1
CHEM 2312	1		CHEM 2320	0
CHEM 2319	0		CHME 2320	4
PHYS 1155 (ND)	3			
PHYS 1156 (AD)	1			
PHYS 1157	1			
CHME 2000	1			
CHME 2308	4			
	19	0	0	9
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MATH 2341	4 Co-op	Co-op	ENGW 3302 or 3315 (WD)	4
BIOL 1115 (ND)	4		Open elective	4
CHEM 2310	4			
CHEM 2311 (AD, WI)	2			
CHME 3322	4			
	18	0	0	8
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CHME 3000	1 CHME 4510	4 Vacation	Vacation	
CHME 3312	4 CHME 7350	4		

CHME 3313 (AD, WI)	2 Graduate Elective	4		
CHME 7320	4 Graduate Elective	4		
Advanced Science Elective	4			
	15	16	0	0

Year 5

Fall	Hours	Spring	Hours
CHME 4701	4	CHME 4512	4
CHME 7330	4	CHME 4703 (EI, CE)	4
Graduate Elective	4	CHME 7340	4
General Elective	4	Graduate CHME Special Topics	4
	16	16	

Total Hours: 151

Chemical Engineering, BS/ Engineering Management, MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPATH Requirements

All undergraduate students are required to complete the NUPATH Requirements (p. 34).

Major GPA Requirement

Minimum 2.000 GPA required in CHME courses

Minimum 3.000 GPA required in all graduate courses

Mathematics/Science Requirement

Complete 31 semester hours in mathematics and science as indicated below.

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

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 science as indicated below:

BIOL 1111 or BIOL 1115	General Biology 1 General Biology 1 for Engineers	4
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: 4-5

BIOL 2301
and BIOL 2302

Genetics and Molecular Biology
and Lab for BIOL 2301

BIOL 2323
and BIOL 2324

and

BIOL 2327

Human Parasitology

BIOL 3603

Mammalian Systems Physiology

CHEM 2321
and CHEM 2322

Analytical Chemistry
and Lab for CHEM 2321

CHEM 2331
and CHEM 2332

Bioanalytical Chemistry
and Lab for CHEM 2331

CHEM 2341
and CHEM 2342

Forensic Chemistry 1
and Lab for CHEM 2341

CHEM 3403
and CHEM 3404

Quantum Chemistry and Spectroscopy
and Lab for CHEM 3403

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
-----------	--------------------

Engineering

Complete 48 semester hours in engineering as indicated below

CHME 2308	Conservation Principles in Chemical Engineering	4
CHME 2310 and CHME 2311	Transport Processes 1 and Lab for CHME 2310	6
CHME 2320	Chemical Engineering Thermodynamics 1	4
CHME 3312 and CHME 3313	Transport Processes 2 and Separations and Lab for CHME 3312	6
CHME 3322	Chemical Engineering Thermodynamics 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
---------	------------------------------

2 semester hours from the following course count toward the engineering requirement:	2
--------------------------------------------------------------------------------------	---

GE 1502	Cornerstone of Engineering 2
---------	------------------------------

Professional Development

Complete 6 semester hours in professional development as indicated below

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 each of the following courses will apply to the professional development area:	2
----------------------------------------------------------------------------------------------------------	---

GE 1501	Cornerstone of Engineering 1
---------	------------------------------

GE 1502	Cornerstone of Engineering 2
---------	------------------------------

Additional NUPath Courses

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 Elective

Complete three academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.	12
---------------------------------------------------------------------------------------------------	----

Graduate Courses Taken for the Plus One Program

Required Graduate Courses

EMGT 5220	Engineering Project Management	4
EMGT 6225	Economic Decision Making	4
IE 6200	Engineering Probability and Statistics (This course counts as an Advanced Engineering Elective)	4
OR 6205	Deterministic Operations Research	4

Graduate Technical Electives

Complete 16 semester hours from the following	16
-----------------------------------------------	----

CSYE 6200	Concepts of Object-Oriented Design
CSYE 6205	Concepts of Object-Oriented Design with C++
CSYE 6210	Component Software Development
CSYE 6220	Enterprise Software Design
CSYE 7230	Software Engineering
CSYE 7270	Building Virtual Environments
CSYE 7280	User Experience Design and Testing
ENSY 5000	Fundamentals of Energy System Integration
EMGT 5300	Engineering/Organizational Psychology
EMGT 6305	Financial Management for Engineers
EMGT 7978	Independent Study
ENTR 6200	Enterprise Growth and Innovation
ENTR 6212	Business Planning for New Ventures
ENTR 6218	Business Model Design and Innovation
ENTR 6219	Financing Ventures from Early Stage to Exit
GE 5100	Product Development for Engineers
IE 5400	Healthcare Systems Modeling and Analysis
IE 5500	Systems Engineering in Public Programs
IE 5617	Lean Concepts and Applications
IE 5620	Mass Customization
IE 5640	Data Mining for Engineering Applications
IE 6300	Manufacturing Methods and Processes
IE 7200	Supply Chain Engineering
IE 7215	Simulation Analysis
IE 7255	Manufacturing Processes
IE 7270	Intelligent Manufacturing
IE 7275	Data Mining in Engineering
IE 7280	Statistical Methods in Engineering
IE 7285	Statistical Quality Control
IE 7290	Reliability Analysis and Risk Assessment
IE 7315	Human Factors Engineering
IE 7615	Neural Networks in Engineering
INFO 6210	Data Management and Database Design

INFO 6215	Business Analysis and Information Engineering
INFO 6245	Planning and Managing Information Systems Development
INFO 7245	Agile Software Development
INFO 7260	Business Process Engineering
INFO 7275	Advanced Database Management Systems
INFO 7285	Organizational Change and IT
INFO 7290	Data Warehousing and Business Intelligence
INFO 7330	Information Systems for Healthcare-Services Delivery
INFO 7365	Enterprise Architecture Planning and Management
INFO 7390	Advances in Data Sciences and Architecture
MGSC 6206	Management of Service and Manufacturing Operations
OR 7230	Probabilistic Operation Research
OR 7235	Inventory Theory
OR 7240	Integer and Nonlinear Optimization
OR 7245	Network Analysis and Advanced Optimization
OR 7250	Multi-Criteria Decision Making
OR 7310	Logistics, Warehousing, and Scheduling
SCHM 6212	Executive Roundtable in Supply Chain Management
SCHM 6214	Sourcing and Procurement
SCHM 6215	Supply Chain Analytics
SCHM 6221	Sustainability and Supply Chain Management
SCHM 6222	Managing Emerging Issues in Supply Chain Management
SCHM 6223	Managing Healthcare Supply Chain Operations
SCHM 6224	Demand Planning and Forecasting
TECE 6200	Innovation and Entrepreneurial Growth
TECE 6222	Emerging and Disruptive Technologies
TECE 6230	Entrepreneurial Marketing and Selling
TECE 6250	Lean Design and Development
TECE 6300	Managing a Technology-Based Business
TECE 6340	The Technical Entrepreneur as Leader
TELE 5310	Fundamentals of Communication Systems
TELE 5330	Data Networking

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 Requirements

151 total semester hours required

Plan of Study Five 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 Vacation	Vacation	
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	Co-op	
CHEM 2311	4 CHEM 2313	4		
CHEM 2312	1 CHEM 2314	1		
CHEM 2319	0 CHEM 2320	0		
PHYS 1155 (ND)	3 CHME 2000	1		
PHYS 1156 (AD)	1 CHME 2310	4		
PHYS 1157	1 CHME 2311 (AD, WI)	2		
CHME 2308	4 CHME 2320	4		
	18	20	0	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	BIOL 1115 (ND)	4 ENGW 3302 (WD)	4 Co-op	
	CHME 3312	4 General Elective	4	
	CHME 3313 (AD, WI)	2		
	CHME 3322	4		
	0	14	8	0
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	Advanced Science Elective	4 IE 6200	4 Vacation	
	CHME 3000	1 Graduate MSEM Elective	4	
	CHME 4510	4		
	CHME 4701	4		
	OR 6205	4		
	0	17	8	0

Year 5

Fall	Hours Spring	Hours
General Elective	4 CHME 4512	4
EMGT 5220	4 CHME 4703 (EI, CE)	4
EMGT 6225	4 Graduate MSEM Elective	4
Graduate MSEM Elective	4 Graduate MSEM Elective	4
	16	16

Total Hours: 151

Five 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 Vacation	Vacation	
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
CHME 2000	1 Co-op	Co-op	CHEM 2313	4
MATH 2321 (FQ)	4		CHEM 2314	1
CHEM 2311	4		CHEM 2320	0
CHEM 2312	1		CHME 2320	4
CHEM 2319	0			
PHYS 1155 (ND)	3			
PHYS 1156 (AD)	1			
PHYS 1157	1			
CHME 2308	4			
	19	0	0	9

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MATH 2341	4 Co-op	Co-op	ENGW 3302 (WD)	4
CHME 2310	4		General Elective	4
CHME 2311 (AD, WI)	2			
BIOL 1115 (ND)	4			
CHME 3322	4			
	18	0	0	8

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Advanced Science Elective	4 CHME 4510	4 Vacation	Vacation	
CHME 3000	1 OR 6205	4		
CHME 3312	4 IE 6200	4		
CHME 3313 (AD, WI)	2 Graduate MSEM Elective	4		
EMGT 5220	4			
	15	16	0	0

Year 5

Fall	Hours Spring	Hours
CHME 4701	4 CHME 4512	4
EMGT 6225	4 CHME 4703 (EI, CE)	4
General Elective	4 Graduate MSEM elective	4
Graduate MSEM Elective	4 Graduate MSEM elective	4
	16	16

Total Hours: 151

Biochemical Engineering, Minor

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 Breadth Courses**

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 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
BIOL 2323 and BIOL 2324	and	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

Required Chemical Engineering Courses

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

CHME 4703	Capstone Design 2: Chemical Process Design	4
-----------	--------------------------------------------	---

GPA Requirement

2.000 GPA required in the minor

Civil and Environmental Engineering

Website (<http://www.civ.neu.edu>)

Jerome F. Hajjar, PhD, PE
CDM Smith Professor and Chair

400 Snell Engineering Center
617.373.2444
617.373.4419 (fax)

Civil engineers judiciously apply their knowledge of mathematics and physical sciences to improve and protect the environment and to provide facilities and structures for community living, industry, and transportation. Civil engineering encompasses several disciplines, including structural engineering, environmental engineering, transportation planning and engineering, and geotechnical engineering. Civil engineers supervise the construction of bridges, tunnels, buildings, dams, and aqueducts. They also plan, design, construct, and manage highways, railroads, canals, and airports; regulate rivers and control floods; and design and build systems for water distribution, wastewater treatment, waste disposal, and environmental remediation.

The civil engineering program at Northeastern University seeks to prepare students to contribute to society as civil engineers and in other professions that benefit from a technical education. Our goal is to graduate students who will be technically competent, creative, critical thinkers, and skilled as communicators. Their educational background qualifies them to seek licensure as professional engineers and/or to pursue graduate study in civil engineering. They 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.

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 program is to offer students valuable professional experience and contacts that will help get them started in their professional career, as well as the development of career management skills.

The program educational objectives are as follows. The civil engineering program at Northeastern University seeks to prepare graduates to contribute to society as civil engineers and in other professions that benefit from a technical education. Within a few years of graduation, many of our graduates will be working in responsible engineering positions that will qualify them to take the PE exam, and they will be

prepared to successfully pursue advanced study in civil engineering and other fields.

The civil engineering program is designed to provide students with a broad education appropriate for a variety of career choices and lifelong learning. Experience tells us that civil engineering graduates will enter almost every field imaginable. The knowledge and skills acquired—understanding science, critical thinking, effective communication, and understanding the social context, among them—form an excellent foundation for a host of careers, as well as for a fulfilling life outside the world of work. The civil engineering program has been designed with five general electives that permit students to explore or acquire further depth in other fields of interest. Students can use these electives to earn a minor in business, architectural history, music, computer science, or any number of other fields.

The co-op program parallels the academic program in level of responsibility and sophistication. A beginning job might involve layout at a construction site or laboratory testing; in senior-level co-op assignments, students are often working alongside engineers on design teams.

Programs**Bachelor of Science in Civil Engineering (BSCE)**

- Civil Engineering (p. 362)

Dual Degree

- Civil Engineering, BS/MS (p. 365)
- Civil Engineering, BS/Engineering Management, MS (p. 369)
- Civil Engineering, BS/Sustainable Building Systems, MS (p. 373)

Civil Engineering, BSCE**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum required in CIVE courses

Mathematics/Science Requirement

Complete 33 semester hours in mathematics and science as indicated below.

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	
CHEM 2321 and CHEM 2322	Analytical Chemistry and Lab for CHEM 2321	
CHEM 3401	Chemical Thermodynamics and Kinetics	
ENVR 1101	Environmental Science	
ENVR 1110	Global Climate Change	
ENVR 1111	Weather and Climate	
ENVR 1120	Oceans and Coasts	
ENVR 1200	Dynamic Earth	
ENVR 1202	History of Earth and Life	
ENVR 2310	Earth Materials	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 3302 and ENVR 3303	Introduction to Remote Sensing and Lab for ENVR 3302	
ENVR 3400	Field Geology	
ENVR 3418	Geophysics	
ENVR 4505	Wetlands	
ENVR 4515	Sustainable Development	
ENVR 5250	Geology and Land-Use Planning	
ENVR 5280		
ENVR 5282		
ENVR 5290	Engineering Geology	
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	

Engineering

Complete 60 semester hours in engineering as indicated below.

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 2334	Environmental Engineering 1	4
CIVE 2331	Fluid Mechanics	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 5536	Hydrologic Engineering	
CIVE 4542	Foundation Engineering	
CIVE 4554	Highway Engineering	

Civil Engineering Technical Electives

Complete 11 semester hours from the following:		11
CIVE 3425	Steel Design	
CIVE 5522	Structural Analysis 2	
CIVE 4534 and CIVE 4535	Environmental Engineering 2 and Lab for CIVE 4534	
CIVE 5536	Hydrologic Engineering	
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 5321	Geoenvironmental Engineering	

CIVE 5373	Transportation Planning and Engineering
CIVE 5376	Traffic Engineering
CIVE 2324	Reinforced Concrete Design
CIVE 5699	Special Topics in Civil Engineering
SBSY 5100	Sustainable Design and Technologies in Construction
SBSY 5200	Sustainable Engineering Systems for Buildings
SBSY 5300	Information Systems for Integrated Project Delivery
CIVE 5221	Construction Project Control and Organization
CIVE 5231	Alternative Project Delivery Systems in Construction
CIVE 5271	Solid and Hazardous Waste Management
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure (Senior Design Project)

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

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

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**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 each of the following courses will apply to the professional development area: 2

GE 1501	Cornerstone of Engineering 1
GE 1502	Cornerstone of Engineering 2

Additional NUPath Courses**Writing**

A grade of C or higher is required:

ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4

Major-Specific Requirements

ECON 1115	Principles of Macroeconomics	4
-----------	------------------------------	---

or ECON 1116 Principles of Microeconomics

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 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**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
CIVE 2334	4	CIVE 2320	4	Vacation	0	Co-op	0
MATH 2321 (FQ)	4	MATH 2341	4				
CIVE 2221	4	CIVE 2260	4				
CIVE 2222	0	GE 3300	4				
ECON 1115 or 1116 (AD, SI)	4	CIVE 2261 (AD)	1				
		CIVE 2000	1				
		CIVE 2321	0				
	16		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CIVE Technical Elective	4	CIVE 2324	4	Co-op	0
		CIVE 2340	4	General Elective	4		
		CIVE 2341	1				

CIVE 2331	4			
Science Elective	4			
<hr/>				
	0	17	8	0
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 ENGW 3302 (WD)	4 General Elective	4 Co-op	0
	CIVE Technical Elective	3 General Elective	4	
	CIVE Project Elective	4		
	CIVE 3464	4		
	CIVE 3000	1		
<hr/>				
	0	16	8	0
Year 5				
Fall	Hours Spring	Hours		
Co-op	0 Senior Design Project	5		
	General Elective	4		
	General Elective	4		
	CIVE Technical Elective	4		
<hr/>				
	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		
GE 1000	1 PHYS 1153	1		
GE 1501	4 GE 1502 (ER)	4		
ENGW 1111 (WF)	4 General Elective	4		
<hr/>				
	17	17	0	0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CIVE 2334	4 Co-op	0 Co-op	0 Vacation	0
MATH 2321 (FQ)	4			
CIVE 2000	1			
CIVE 2221	4			
CIVE 2222	0			
CIVE 2260	4			

CIVE 2261 (AD)	1			
<hr/>				
	18	0	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CIVE 2320	4 Co-op	0 Co-op	0 CIVE 2340	4
CIVE 2321	0		CIVE 2341	1
CIVE 2331	4		MATH 2341	4
ECON 1115 or 1116 (AD, SI)	4			
GE 3300	4			
<hr/>				
	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 Technical Elective	3		General Elective	4
Science Elective	4			
ENGW 3302 (WD)	4			
CIVE 3000	1			
<hr/>				
	16	0	0	8

Year 5		
Fall	Hours Spring	Hours
CIVE 3464	4 Senior Design Project	5
General Elective	4 General Elective	4
CIVE technical elective	4 General Elective	4
CIVE project elective	4 CIVE Technical Elective	4
<hr/>		
	16	17

Total Hours: 134

Civil Engineering, BS/MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Undergraduate students apply to the dual-degree bachelor's/master's program through their academic advisor and the graduate school, selecting a concentration for the MS in Civil Engineering from among the five listed in the graduate catalog: construction management, environmental and water systems, geotechnical/geoenvironmental engineering, structural engineering, or transportation engineering.

Once admitted, students must complete the requirements for the BS in Civil Engineering as well as 32 graduate credits that meet the requirements for the MS in Civil Engineering program, following the selected concentration. Students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the academic advisor for information on this program.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

Minimum 2.000 GPA required in CIVE courses

Minimum 3.000 GPA required in graduate courses

Mathematics/Science Requirement

Complete 33 semester hours in mathematics and science as indicated below.

Required Mathematics/Science

Complete one of the following: 4

CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
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:

ENVR 1101	Environmental Science	
ENVR 1110	Global Climate Change	
ENVR 1111	Weather and Climate	
ENVR 1120	Oceans and Coasts	
ENVR 1200	Dynamic Earth	
ENVR 1202	History of Earth and Life	

ENVR 2310	Earth Materials	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 3302 and ENVR 3303	Introduction to Remote Sensing and Lab for ENVR 3302	
ENVR 3400	Field Geology	
ENVR 3418	Geophysics	
ENVR 4505	Wetlands	
ENVR 4515	Sustainable Development	
ENVR 5250	Geology and Land-Use Planning	
ENVR 5280		
ENVR 5282		
ENVR 5290	Engineering Geology	
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	
CHEM 2321 and CHEM 2322	Analytical Chemistry and Lab for CHEM 2321	
CHEM 3401	Chemical Thermodynamics and Kinetics	
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 4

1 semester hour from the following course counts toward the mathematics/science requirement: 1

GE 1501 Cornerstone of Engineering 1 4

Engineering

Complete 56 semester hours in engineering as indicated below.

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	Reinforced Concrete Design	4

or CIVE 3425	Steel Design	
CIVE 2334	Environmental Engineering 1	4
CIVE 2331	Fluid Mechanics	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 5536	Hydrologic Engineering	
CIVE 4542	Foundation Engineering	
CIVE 4554	Highway Engineering	

Civil Engineering Technical Electives

Complete 11 semester hours from the following:		11
CIVE 3425	Steel Design	
CIVE 5522	Structural Analysis 2	
CIVE 4534 and CIVE 4535	Environmental Engineering 2 and Lab for CIVE 4534	
CIVE 4540	Resource Recovery and Waste Treatment Technologies Abroad	
CIVE 5536	Hydrologic Engineering	
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 5271	Solid and Hazardous Waste Management	
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	
CIVE 5321	Geoenvironmental Engineering	
CIVE 5373	Transportation Planning and Engineering	
CIVE 5376	Traffic Engineering	
CIVE 2324	Reinforced Concrete Design	
CIVE 5699	Special Topics in Civil Engineering	
SBSY 5100	Sustainable Design and Technologies in Construction	
SBSY 5200	Sustainable Engineering Systems for Buildings	
SBSY 5300	Information Systems for Integrated Project Delivery	

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	

Supplemental Credit

2 semester hours from the following course count toward the engineering requirement: 2

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 4

Professional Development**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 each of the following courses will apply to the professional development area: 2

GE 1501 Cornerstone of Engineering 1

GE 1502 Cornerstone of Engineering 2

Additional NUPath Courses**Writing**

A grade of C or higher is required:

ENGW 1111 First-Year Writing 4

ENGW 3302 Advanced Writing in the Technical
Professions 4

Major-Specific Requirements

ECON 1115 Principles of Macroeconomics 4
or ECON 1116 Principles of Microeconomics

NUPath Requirements through General Electives

NUPath requirements Interpreting Culture (IC) 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 five academic, nonremedial, nonrepetitive courses, equivalent to 4 semester hours. 20

Graduate Courses Taken As an Undergraduate Student

Complete eight courses that will count toward the Master of Science in Civil Engineering in consultation with your advisor. 32

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

151 total semester hours required

Plan of Study

Five 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 Vacation	Vacation	
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	Co-op	
ECON 1115 or 1116 (AD, SI)	4 CIVE 2000	1		
CIVE 2221	4 CIVE 2260	4		
CIVE 2222	0 CIVE 2261	1		
CIVE 2334	4 CIVE 2320	4		
	CIVE 2321	0		
	GE 3300	4		
	16	18	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	CIVE 2331	4 CIVE 2324	4 Co-op	
	CIVE 2340	4 General elective	4	
	CIVE 2341	1		
	Undergraduate civil technical/project elective	4		
	Science elective	4		
	0	17	8	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	CIVE 3000	1 General elective	4 Vacation	
	CIVE 3464	4 ENGW 3302 (WD)	4	
	Graduate civil technical elective	4		
	Graduate civil technical elective	4		

Year 5			
Fall	Hours Spring	Hours	Hours
Graduate course	4 CIVE 476x	5	
Graduate course	4 Graduate course	4	
Graduate course	4 Graduate course	4	
General elective	4 General elective	4	
	16	17	

Total Hours: 151

Five Years, 2 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 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	Co-op	Vacation	
CIVE 2000	1			
CIVE 2221	4			
CIVE 2222	0			
CIVE 2260	4			
CIVE 2261	1			
CIVE 2334	4			
	18	0	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CIVE 2320	4 Co-op	Co-op	MATH 2341	4
CIVE 2321	0		CIVE 2340	4
CIVE 2331	4		CIVE 2341	1
ECON 1115 or 1116 (AD, SI)	4			
GE 3300	4			
	16	0	0	9

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CIVE 2324	4 Graduate course	4 Vacation	General elective	4

CIVE 3000	1 Science elective	4	General elective	4
ENGW 3302 (WD)	4 Grad civil technical elective	4		
Graduate civil technical elective	4 Graduate course	4		
Undergrad civil technical elective	4			
	17	16	0	8

Year 5			
Fall	Hours	Spring	Hours
CIVE 3464	4	CIVE 476x	5
Graduate course	4	Graduate course	4
Graduate course	4	Graduate course	4
General elective	4	General elective	4
	16		17

Total Hours: 151

Civil Engineering, BS/ Engineering Management, MS

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

Minimum 2.000 GPA required in CIVE courses

Minimum 3.000 GPA required in graduate courses

Mathematics/Science Requirement

Complete 33 semester hours in mathematics and science as indicated below.

Required Mathematics/Science

Complete one of the following:				4
CHEM 1151	General Chemistry for Engineers			
CHEM 1211	General Chemistry 1			
CHEM 1214	General Chemistry 2			
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
ENVR 1101	Environmental Science			
ENVR 1110	Global Climate Change			
ENVR 1111	Weather and Climate			
ENVR 1120	Oceans and Coasts			
ENVR 1200	Dynamic Earth			
ENVR 1202	History of Earth and Life			
ENVR 2310	Earth Materials			
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300			
ENVR 3302 and ENVR 3303	Introduction to Remote Sensing and Lab for ENVR 3302			
ENVR 3400	Field Geology			
ENVR 3418	Geophysics			
ENVR 4505	Wetlands			
ENVR 4515	Sustainable Development			
ENVR 5250	Geology and Land-Use Planning			
ENVR 5280				
ENVR 5282				
ENVR 5290	Engineering Geology			
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			
CHEM 2321 and CHEM 2322	Analytical Chemistry and Lab for CHEM 2321			
CHEM 3401	Chemical Thermodynamics and Kinetics			
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

IE 6200 Engineering Probability and Statistics

1 semester hour from the following course counts toward the mathematics/science requirement: 1

GE 1502 Cornerstone of Engineering 2

Engineering

Complete 56 semester hours in engineering as indicated below.

Required Engineering

CIVE 2221 Statics and Strength of Materials 4

CIVE 2260 Civil Engineering Materials 4

CIVE 2261 Materials and Measurements Lab 1

CIVE 2320 Structural Analysis 1 4

CIVE 2324 Reinforced Concrete Design 4
or CIVE 3425 Steel Design

CIVE 2334 Environmental Engineering 1 4

CIVE 2331 Fluid Mechanics 4

CIVE 2340 Soil Mechanics 5
and CIVE 2341 and Lab for CIVE 2340

GE 3300 Energy Systems: Science, Technology, 4
and Sustainability

Civil Engineering Project Elective

Complete one of the following: 4

CIVE 5536 Hydrologic Engineering

CIVE 4542 Foundation Engineering

CIVE 4554 Highway Engineering

Civil Engineering Technical Electives

Complete 11 semester hours from the following: 11

CIVE 3425 Steel Design

CIVE 5522 Structural Analysis 2

CIVE 4534 Environmental Engineering 2
and CIVE 4535 and Lab for CIVE 4534

CIVE 4540 Resource Recovery and Waste
Treatment Technologies Abroad

CIVE 5536 Hydrologic Engineering

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 5271 Solid and Hazardous Waste
Management

CIVE 5275 Life Cycle Assessment of Materials,
Products, and Infrastructure

CIVE 5321 Geoenvironmental Engineering

CIVE 5373 Transportation Planning and
Engineering

CIVE 5376 Traffic Engineering

CIVE 2324 Reinforced Concrete Design

CIVE 5699 Special Topics in Civil Engineering

SBSY 5100 Sustainable Design and Technologies
in Construction

SBSY 5200 Sustainable Engineering Systems for
Buildings

SBSY 5300 Information Systems for Integrated
Project Delivery

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

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

GE 1502 Cornerstone of Engineering 2

1 semester hour from the following course counts toward the engineering requirement: 1

EMGT 6225 Economic Decision Making

Professional Development**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 each of the following courses will apply to the professional development area: 1

GE 1501 Cornerstone of Engineering 1

GE 1502 Cornerstone of Engineering 2

Additional NUPATH Courses**Writing**

A grade of C or higher is required:

ENGW 1111 First-Year Writing 4

ENGW 3302 Advanced Writing in the Technical
Professions 4

Major-Specific Requirements

ECON 1115 Principles of Macroeconomics 4
or ECON 1116 Principles of Microeconomics

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 Elective

Complete three academic, nonremedial, nonrepetitive course, equivalent to 4 semester hours. 12

Graduate Courses taken toward the PlusOne program**Required Graduate Courses**

EMGT 5220	Engineering Project Management	4
EMGT 6225	Economic Decision Making	4
IE 6200	Engineering Probability and Statistics	4
OR 6205	Deterministic Operations Research	4

Graduate Technical Electives

Complete 16 semester hours from the following 16

CSYE 6200	Concepts of Object-Oriented Design	
CSYE 6205	Concepts of Object-Oriented Design with C++	
CSYE 6210	Component Software Development	
CSYE 6220	Enterprise Software Design	
CSYE 7230	Software Engineering	
CSYE 7270	Building Virtual Environments	
CSYE 7280	User Experience Design and Testing	
ENSY 5000	Fundamentals of Energy System Integration	
EMGT 5300	Engineering/Organizational Psychology	
EMGT 6305	Financial Management for Engineers	
EMGT 7978	Independent Study	
ENTR 6200	Enterprise Growth and Innovation	
ENTR 6212	Business Planning for New Ventures	
ENTR 6218	Business Model Design and Innovation	
ENTR 6219	Financing Ventures from Early Stage to Exit	
GE 5100	Product Development for Engineers	
IE 5400	Healthcare Systems Modeling and Analysis	
IE 5500	Systems Engineering in Public Programs	
IE 5617	Lean Concepts and Applications	
IE 5620	Mass Customization	
IE 5640	Data Mining for Engineering Applications	
IE 6300	Manufacturing Methods and Processes	
IE 7200	Supply Chain Engineering	
IE 7215	Simulation Analysis	
IE 7255	Manufacturing Processes	
IE 7270	Intelligent Manufacturing	
IE 7275	Data Mining in Engineering	
IE 7280	Statistical Methods in Engineering	
IE 7285	Statistical Quality Control	
IE 7290	Reliability Analysis and Risk Assessment	
IE 7315	Human Factors Engineering	
IE 7615	Neural Networks in Engineering	
INFO 6210	Data Management and Database Design	
INFO 6215	Business Analysis and Information Engineering	

INFO 6245	Planning and Managing Information Systems Development
INFO 7245	Agile Software Development
INFO 7260	Business Process Engineering
INFO 7275	Advanced Database Management Systems
INFO 7285	Organizational Change and IT
INFO 7290	Data Warehousing and Business Intelligence
INFO 7330	Information Systems for Healthcare-Services Delivery
INFO 7365	Enterprise Architecture Planning and Management
INFO 7390	Advances in Data Sciences and Architecture
MGSC 6206	Management of Service and Manufacturing Operations
OR 7230	Probabilistic Operation Research
OR 7235	Inventory Theory
OR 7240	Integer and Nonlinear Optimization
OR 7245	Network Analysis and Advanced Optimization
OR 7250	Multi-Criteria Decision Making
OR 7310	Logistics, Warehousing, and Scheduling
SCHM 6212	Executive Roundtable in Supply Chain Management
SCHM 6214	Sourcing and Procurement
SCHM 6215	Supply Chain Analytics
SCHM 6221	Sustainability and Supply Chain Management
SCHM 6222	Managing Emerging Issues in Supply Chain Management
SCHM 6223	Managing Healthcare Supply Chain Operations
SCHM 6224	Demand Planning and Forecasting
TECE 6200	Innovation and Entrepreneurial Growth
TECE 6222	Emerging and Disruptive Technologies
TECE 6230	Entrepreneurial Marketing and Selling
TECE 6250	Lean Design and Development
TECE 6300	Managing a Technology-Based Business
TECE 6340	The Technical Entrepreneur as Leader
TELE 5310	Fundamentals of Communication Systems
TELE 5330	Data Networking

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

150 total semester hours required

Plan of Study**Five 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 Vacation	Vacation	
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	Co-op	
CIVE 2221	4 CIVE 2000	1		
CIVE 2222	0 CIVE 2260	4		
CIVE 2334	4 CIVE 2261	1		
GE 3300	4 CIVE 2320	4		
	CIVE 2321	0		
	ECON 1115 or 1116 (AD, SI)	4		
	16	18	0	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	CIVE 2331	4 CIVE 2324	4 Co-op	
	CIVE 2340	4 General Elective	4	
	CIVE 2341	1		
	Undergraduate Civ Tech/ Project Elective	4		
	Science Elective	4		
	0	17	8	0
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	CIVE 3000	1 General Elective	4 Vacation	
	IE 6200	4 ENGW 3302 (WD)	4	
	Undergraduate Civ Tech Elective	3		
	Graduate Course	4		
	Graduate Course	4		
	0	16	8	0

Year 5

Fall	Hours Spring	Hours
EMGT 5220	4 EMGT 6225	4
CIVE 7220 or 6205	4 Elective Graduate Course	4
Undergraduate Civ Tech Elective	4 Undergraduate Civ Tech Elective	4
Elective Graduate Course	4 CIVE 476x	5
	16	17

Total Hours: 150

Five Years, 2 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 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	Co-op	Vacation	
CIVE 2000	1			
CIVE 2221	4			
CIVE 2222	0			
CIVE 2260	4			
CIVE 2261	1			
CIVE 2334	4			
	18	0	0	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CIVE 2320	4 Co-op	Co-op	MATH 2341	4
CIVE 2321	0		CIVE 2340	4
CIVE 2331	4		CIVE 2341	1
ECON 1115 or 1116 (AD, SI)	4			
GE 3300	4			
	16	0	0	9
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CIVE 2324	4 IE 6200	4 Vacation	General Elective	4

CIVE 3000	1 Science Elective	4	General Elective	4
ENGW 3302 (WD)	4 Undergraduate Civil Technical Elective	4		
EMGT 5220	4 Graduate Course	4		
CIVE 7220 or 6205	4			
		17	16	0
				8

Year 5

Fall	Hours	Spring	Hours
Graduate Course	4	EMGT 6225	4
Graduate Course	4	CIVE 476x	5
Undergraduate Civ Technical Elective	3	Undergraduate Civ Technical Elective	4
Undergraduate Civ Technical Elective	4	Graduate Course	4
		15	17

Total Hours: 150

Civil Engineering, BS/ Sustainable Building Systems, MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Undergraduate students apply to the dual degree bachelor's/master's program through their academic advisor and the graduate school.

Once admitted, students must complete the requirements for the BS in Civil Engineering as well as 32 graduate credits that meet the requirements for the MS Sustainable Building Systems program. Students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the academic advisor for information on this program.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

Minimum 2.000 GPA required in CIVE courses

Minimum 3.000 GPA required in graduate courses

Mathematics/Science Requirement

Complete 33 semester hours in mathematics and science as indicated below.

Required Mathematics/Science

Complete one of the following: 4

CHEM 1151	General Chemistry for Engineers	
CHEM 1211	General Chemistry 1	
CHEM 1214	General Chemistry 2	
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:

ENVR 1101	Environmental Science	
ENVR 1110	Global Climate Change	
ENVR 1111	Weather and Climate	
ENVR 1120	Oceans and Coasts	
ENVR 1200	Dynamic Earth	
ENVR 1202	History of Earth and Life	
ENVR 2310	Earth Materials	
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	
ENVR 3302 and ENVR 3303	Introduction to Remote Sensing and Lab for ENVR 3302	
ENVR 3400	Field Geology	
ENVR 3418	Geophysics	
ENVR 4505	Wetlands	
ENVR 4515	Sustainable Development	
ENVR 5250	Geology and Land-Use Planning	
ENVR 5280		
ENVR 5282		
ENVR 5290	Engineering Geology	
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	
CHEM 2321 and CHEM 2322	Analytical Chemistry and Lab for CHEM 2321	
CHEM 3401	Chemical Thermodynamics and Kinetics	
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	4
1 semester hour from the following course counts toward the mathematics/science requirement:		
GE 1501	Cornerstone of Engineering 1	4

Engineering

Complete 56 semester hours in engineering as indicated below.

Required Engineering

CIVE 2221	Statics and Strength of Materials	4
CIVE 2260	Civil Engineering Materials	4
CIVE 2261	Materials and Measurements Lab	1
CIVE 2320	Structural Analysis 1	4
CIVE 2324 or CIVE 3425	Reinforced Concrete Design Steel Design	4
CIVE 2334	Environmental Engineering 1	4
CIVE 2331	Fluid Mechanics	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 4542	Foundation Engineering	
CIVE 4554	Highway Engineering	
CIVE 5536	Hydrologic Engineering	

Civil Engineering Technical Electives

Complete 11 semester hours from the following:		11
CIVE 2324	Reinforced Concrete Design	
CIVE 3425	Steel Design	
CIVE 4534 and CIVE 4535	Environmental Engineering 2 and Lab for CIVE 4534	
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 5271	Solid and Hazardous Waste Management	
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	
CIVE 5321	Geoenvironmental Engineering	
CIVE 5373	Transportation Planning and Engineering	
CIVE 5376	Traffic Engineering	
CIVE 5522	Structural Analysis 2	
CIVE 5536	Hydrologic Engineering	
CIVE 5699	Special Topics in Civil Engineering	
SBSY 5100	Sustainable Design and Technologies in Construction	
SBSY 5200	Sustainable Engineering Systems for Buildings	
SBSY 5300	Information Systems for Integrated Project Delivery	

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	

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
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**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 each of the following courses will apply to the professional development area:		2
GE 1501	Cornerstone of Engineering 1	
GE 1502	Cornerstone of Engineering 2	

Additional NUPath Courses

Writing

A grade of C or higher is required:		
ENGW 1111	First-Year Writing	4
ENGW 3302	Advanced Writing in the Technical Professions	4

Major-Specific Requirements

ECON 1115	Principles of Macroeconomics	4
or ECON 1116	Principles of Microeconomics	

NUPath Requirements through General Electives

NUPath requirements Interpreting Culture (IC) 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 Elective

Complete five academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours. 20

Graduate Courses taken toward the PlusOne program

Required Graduate Courses

ARCH 5210 and ARCH 5211	Environmental Systems and Recitation for ARCH 5210	4
SBSY 5100	Sustainable Design and Technologies in Construction	4
SBSY 5200	Sustainable Engineering Systems for Buildings	4

Graduate Technical Electives

Complete 12 semester hours from the following		
ACCT 6200	Financial Reporting and Managerial Decision Making 1	3
ACCT 6201	Financial Reporting and Managerial Decision Making 2	1.5
CIVE 5270	Environmental Protection and Management	4
CIVE 7350	Behavior of Concrete Structures	4
CIVE 7351	Behavior of Steel Structures	4
FINA 6200	Value Creation through Financial Decision Making	3
FINA 6216	Valuation and Value Creation	3
FINA 6217	Real Estate Finance and Investment	3
ME 5645	Environmental Issues in Manufacturing and Product Use	4

Graduate Restricted Electives

Complete 8 semester hours from the following:		
ARCH 5220	Integrated Building Systems	4
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	4
CIVE 7220	Construction Management	4
CIVE 5221	Construction Project Control and Organization	2
CIVE 7230	Legal Aspects of Civil Engineering	4
CIVE 5231	Alternative Project Delivery Systems in Construction	2
EMGT 6305	Financial Management for Engineers	4

SBSY 5300	Information Systems for Integrated Project Delivery	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 Requirements

151 total semester hours required

Program of Study

Five 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	Vacation	4	Vacation	4
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	
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	MATH 2341	4	Vacation	4	Co-op	4
CIVE 2221	4	CIVE 2000	1				
CIVE 2222	0	CIVE 2260	4				
CIVE 2334	4	CIVE 2261	1				
ECON 1115 (AD, SI)	4	CIVE 2320	4				
		CIVE 2321	0				
		GE 3300	4				
		16		18		0	
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CIVE 2331	4	CIVE 2324	4	Co-op	4
		CIVE 2340	4	General Elective	4		
		CIVE 2341	1				
		Undergraduate Civ Tech/Project Elective	4				
		Science Elective	4				
		0		17		8	
Year 4							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		CIVE 3000	1	General Elective	4	Vacation	4

CIVE 3464	4	ENGW 3302 (WD)	4	
Graduate Elective	4			
Graduate Elective	4			
General Elective	4			
	0	17	8	0
Year 5				
Fall	Hours Spring	Hours		
ARCH 5210 (ND, AD)	4 SBSY 5200	4		
SBSY 5100	4 Graduate Elective	4		
Graduate Elective	4 General Elective	4		
Graduate Elective	4 CIVE 476x	5		
	16	17		

Total Hours: 151

Five Years, 2 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 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	Co-op	Vacation	
CIVE 2000	1			
CIVE 2221	4			
CIVE 2222	0			
CIVE 2260	4			
CIVE 2261	1			
CIVE 2334	4			
	18	0	0	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CIVE 2320	4 Co-op	Co-op	MATH 2341	4
CIVE 2321	0		CIVE 2340	4
CIVE 2331	4		CIVE 2341	1
ECON 1115 or 1116 (AD, SI)	4			

GE 3300	4			
	16	0	0	9
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CIVE 2324	4 SBSY 5200	4 Vacation	General Elective	4
CIVE 3000	1 ENGW 3302 (WD)	4	General Elective	4
SBSY 5100	4 Graduate Elective	4		
Undergrad Project Elective	4 Science Elective	4		
Graduate Elective	4			
	17	16	0	8

Year 5				
Fall	Hours Spring	Hours		
ARCH 5210 (ND, AD)	4 CIVE 476x	5		
CIVE 3464	4 Graduate Elective	4		
Graduate Elective	4 General Elective	4		
Graduate Elective	4 General Elective	4		
	16	17		

Total Hours: 151

Electrical and Computer EngineeringWebsite (<http://www.ece.neu.edu>)**Sheila S. Hemami, PhD**
Professor and Chair**Charles DiMarzio, PhD**
Associate Professor and Associate Chair409 Dana Research Center
617.373.7529
617.373.4431 (fax)

The Department of Electrical and Computer Engineering offers two distinct Bachelor of Science programs: Bachelor of Science in Electrical Engineering (BSEE) and Bachelor of Science in Computer Engineering (BSECE). A combined major is available in electrical and computer engineering for students who complete the requirements of both majors. In addition, minors in electrical engineering, computer engineering, and biomedical engineering are available to qualified students throughout the university.

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.

More than 90 percent of department undergraduates take advantage of the cooperative education program. During the cooperative work phase of the program, the students' levels of responsibility grow as they gain theoretical and technical knowledge through academic work. A sophomore might begin cooperative work experience as an engineering assistant and progress by the senior year to a position with responsibilities similar to those of entry-level engineers.

A senior-year design course caps the education by drawing on everything learned previously. Teams of students propose, design, and build a functioning electrical or computer engineering system—just as they might in actual practice.

Electrical Engineering

The components of the Information Age—global communication systems; computers and computer chips, and the software that runs them; as well as pacemakers, magnetic resonance imaging, and interplanetary space missions—are possible because of the efforts of electrical engineers. Today, electrical engineers are developing concepts and working to translate these ideas into the next generation of products, from computers and safe, energy-efficient vehicles, to radar that can detect unexploded land mines from the air, to microrobots that diagnose disease from inside the body.

Many electrical engineers work in the traditional areas of communications, computation, and control and components required to realize such systems. They are involved in design and product development, testing and quality control, sales and marketing, and manufacturing. Others use their problem-solving skills in diverse areas such as bioengineering, 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.

As specified below, the BSEE degree requires a sequence of core courses and advanced study in one or more technical elective areas: electronic circuits and devices; signals and systems; fields, waves, and optics; power engineering; or computer engineering. General electives and electives in the arts and humanities and social sciences are also required.

Computer Engineering

The use of computer technology is exploding, driven by applications in wireless communications, multimedia, portable devices, and Internet computing. At the core of these technological advances are computer engineers who research, design, and develop hardware and software. With a degree in computer engineering you might develop a full-featured multimedia phone, design the next-generation microprocessor, program computer-guided cameras to inspect nanomanufacturing facilities, or start your own software company.

The computer engineering major acquires a strong foundation in engineering principles and the physical sciences in addition to a powerful mix of theory and practice in hardware and software design. The core of the computer engineering curriculum comprises courses in computer organization and architecture, computer networks, computer-aided design, programming languages, optimization theory, and software design.

The BSCompE degree requires a sequence of core courses, technical electives, general electives, and electives in the arts and humanities and social sciences.

Combined Major in Electrical Engineering and Physics

This intercollege combined major serves students who would like to explore their interest in physics while earning the benefit of an accredited Bachelor of Science degree in engineering. The major combines a major in physics from the Department of Physics in the College of Science with the Bachelor of Science in Electrical Engineering degree from the Department of Electrical and Computer Engineering.

Because of the large body of shared knowledge between electrical engineering and physics, a combined major between these two disciplines is a logical course of study and can be accomplished within a student's usual five-year program (including three co-op placements) without requiring course overloading in any semester. A student graduating from this program will have studied both the physical fundamentals and the applications of electronic devices and systems.

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.

Combined Major in Computer Engineering and Computer Science

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 Computer 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. This combined major adds an in-depth and richer knowledge of programming languages and software, operating systems, and algorithms to the skills learned in the computer engineering major. The program is a particularly

appropriate course of study for students who wish to pursue a career in computer and networking hardware/software, operating systems, and programming languages, providing graduates with extensive knowledge in a broad spectrum of computing technologies.

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.

Combined Major in Computer Engineering and Physics

This intercollege combined major serves students who would like to explore their interest in physics while earning the benefit of an accredited Bachelor of Science degree in engineering. The major combines a major in physics from the Department of Physics in the College of Science with the Bachelor of Science in Computer 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. This combined major adds an in-depth knowledge of physics, including physical fundamentals, energy and waves, materials and the applications of electronic devices and systems as well as physical computational challenges to the computer engineering base of information. Students pursuing the combined computer engineering/physics program will be prepared for careers in computational science, physics-based simulation, as well as more traditional career paths for computer engineers and physics majors.

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.

Programs

Bachelor of Science in Electrical Engineering (BSEE)

- Electrical Engineering (p. 386)
- Electrical Engineering and Physics (p. 389)

Bachelor of Science in Computer Engineering (BSCompE)

- Computer Engineering (p. 378)
- Computer Engineering and Physics (p. 384)
- Computer Engineering and Computer Science (p. 381)

Combined Major (BSEE or BSCompE)

- Electrical and Computer Engineering (p. 391)

Dual Degree

- Electrical Engineering, BS/Electrical and Computer Engineering, MS (p. 397)
- Electrical Engineering, BS/Engineering Management, MS (p. 399)
- Computer Engineering, BS/Electrical and Computer Engineering, MS (p. 395)
- Computer Engineering, BS/Engineering Management, MS (p. 397)
- Applied Physics and Engineering, BS/MS (p. 394)

Minors

- Electrical Engineering (p. 401)
- Computer Engineering (p. 401)
- Computational Data Analytics (p. 400)

- Biomedical Engineering (p. 399)

Computer Engineering, BSCompE

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA required in EECE courses

Mathematics/Science Requirement

Complete 35 semester hours in mathematics and science as indicated below.

Required Mathematics/Science

CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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
---------	------------------------------

Engineering

Complete 56 semester hours in engineering as indicated below.

Required Courses

EECE 2150 and EECE 2151	Circuits and Signals: Biomedical Applications and Lab for EECE 2150	5
EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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

Up to two courses may be in CS.

Complete four of the following: 16

EECE 2750	Enabling Engineering
EECE 3154	Hyperspectral Imaging in an International Context
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 5576 to EECE 5698

CS 3200 Database Design

CS 3500 Object-Oriented Design

CS 3540 to CS 3800

CS 4100 to CS 4650

CS 4740 to CS 4850

CS 5010 to CS 5610

CS 5650 to CS 5850

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
---------	------------------------------

2 semester hours from the following course count toward the engineering requirement: 2

GE 1502	Cornerstone of Engineering 2
---------	------------------------------

Professional Development**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 each of the following courses will apply to the professional development area: 2

GE 1501	Cornerstone of Engineering 1
GE 1502	Cornerstone of Engineering 2

Additional NUPath Courses**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, and if these are not fulfilled in engineering courses, should use general electives to do so.

Required General Electives

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

131 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 2000	1 Vacation	0 Co-op	0
PHYS 1155 (ND)	3 EECE 2150	4		
PHYS 1156 (AD)	1 EECE 2151 (AD)	1		
PHYS 1157	1 CS 1800 (FQ)	4		
EECE 2160	3 CS 1801	0		
EECE 2161 (WI)	1 General elective	4		
General elective	4 CE fundamentals	4		
	17	18	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: 131

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	3			
EECE 2161 (WI)	1			
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 1801	0		General elective	4
EECE 2150	4			
EECE 2151 (AD)	1			
CE fundamentals	4			
General elective	4			
	17	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: 131

Computer Engineering and Computer Science, BSCompE

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA in EECE 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 1801	Discrete Structures and Recitation for CS 1800	4
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

Engineering

Complete 48 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150 and EECE 2151	Circuits and Signals: Biomedical Applications and Lab for EECE 2150	5
EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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		
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 Elective		
Complete two of the following:		8
EECE 3154	Hyperspectral Imaging in an International Context	
EECE 2530 and EECE 2531	Fundamentals of Electromagnetics and Lab for EECE 2530	
EECE 2750	Enabling Engineering	
EECE 4993	Independent Study	
GE 4608	Nanotechnology in Engineering	

EECE 2412 to EECE 2530

EECE 5576 to EECE 5698

EECE 3324 to EECE 4698

ENGR 5670 Sustainable Energy: Materials, Conversion, Storage, and Usage

One CS course from the following approved list may be taken toward the EECE technical elective requirement:

CS 3200 Database Design

CS 3540 Game Programming

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

CS 5010 to CS 5610

CS 5650 to CS 5850

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

2 semester hours from the following course count toward the engineering requirement: 2

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 3700	Networks and Distributed Systems	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	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 each of the following courses will apply to the professional development area: 1		
GE 1501	Cornerstone of Engineering 1	
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

Complete two academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

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

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

138 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

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MATH 2341	4 EECE 2160	3 Vacation	0 Co-op	0
PHYS 1155 (ND)	3 EECE 2161 (WI)	1		
PHYS 1156 (AD)	1 CS 2510 (ND, AD)	4		
PHYS 1157	1 CS 2511	1		
CS 2500 (ND, FQ)	4 CS 2800	4		
CS 2501	1 CS 2801	1		
CS 1800 (FQ)	4 EECE 2000	1		
CS 1801	0 General elective	4		
		18	19	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 EECE 2150	4 ENGW 3302 (WD)	4 Co-op	0
	EECE 2151 (AD)	1 CS 3500 (ND, AD)	4	
	CE fundamental course	4		
	CE fundamental course	5		
	CS 3650	4		
		0	18	8

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 4800	4	
	EE fundamental course	4		
	MATH 3081 (AD)	4		
	CS 3700	4		
		0	17	8

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
	0
	16

Total Hours: 138

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

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 1801	0			
EECE 2000	1			
		19	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
EECE 2150	4 Co-op	0 Co-op	0 ENGW 3302 (WD)	4
EECE 2151 (AD)	1		MATH 3081 (AD)	4
EECE 2160	3			
EECE 2161 (WI)	1			
CS 2510 (ND, AD)	4			
CS 2511	1			
CS 2800	4			
CS 2801	1			
		19	0	0

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 4800	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
CS 3700	4	CS 4500 (WI)	4
	16		16

Total Hours: 138

Computer Engineering and Physics, BSCompE

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA required in EECE courses

Mathematics/Science Requirement

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 1801	Discrete Structures and Recitation for CS 1800	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 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

PHYS 4606	Mathematical and Computational Methods for Physics	
PHYS 4621	Biological Physics 1	
PHYS 4623	Medical Physics	
PHYS 4651	Medical Physics Seminar 1	
PHYS 4652	Medical Physics Seminar 2	
PHYS 5111	Astrophysics and Cosmology	
PHYS 5113	Introduction to Particle and Nuclear Physics	
PHYS 5114	Physics of Advanced Materials	
PHYS 5116	Complex Networks and Applications	
PHYS 5260	Introduction to Nanoscience and Nanotechnology	

Supplemental Credit

1 semester hour from the following course counts toward the mathematics/science requirement: 1

GE 1502	Cornerstone of Engineering 2	
---------	------------------------------	--

Engineering

Complete 48 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150 and EECE 2151	Circuits and Signals: Biomedical Applications and Lab for EECE 2150	5
EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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

Complete two of the following:		8
EECE 2750	Enabling Engineering	
EECE 3154	Hyperspectral Imaging in an International Context	
EECE 4993	Independent Study	
EECE 2412 to EECE 2530		
EECE 3324 to EECE 4698		
EECE 5576 to EECE 5698		
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608	Nanotechnology in Engineering	
CS 3200	Database Design	
CS 3500	Object-Oriented Design	
CS 3540 to CS 3800		
CS 4100 to CS 4650		
CS 4740 to CS 4850		
CS 5010 to CS 5610		
CS 5650 to CS 5850		
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	
2 semester hours from the following course count toward the engineering requirement:		2
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 each of the following courses counts toward the engineering requirement:		2
GE 1501	Cornerstone of Engineering 1	

GE 1502	Cornerstone of Engineering 2
---------	------------------------------

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

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 through 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

131 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	4		
EECE 2160	3 EECE 2151 (AD)	1		
EECE 2161 (WI)	1 CE fundamentals	4		
	CS 1800 (FQ)	4		
	CS 1801	0		
	16	18	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: 131

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.

As specified below, the BSEE degree requires a sequence of core courses and advanced study in one or more technical elective areas: electronic circuits and devices; signals and systems; fields, waves, and optics; power engineering; or computer engineering. General electives and electives in the arts and humanities and social sciences are also required.

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

Minimum 2.000 GPA required in EECE courses

Mathematics/Science Requirement

Complete 33 semester hours in mathematics and science as indicated below:

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:

EECE 3468	Noise and Stochastic Processes	2
-----------	--------------------------------	---

1 semester hour from the following course counts toward the mathematics/science requirement:

GE 1502	Cornerstone of Engineering 2	1
---------	------------------------------	---

3 semester hours from the following course count toward the engineering requirement:

GE 1501	Cornerstone of Engineering 1	3
---------	------------------------------	---

2 semester hours from the following course count toward the engineering requirement:

GE 1502	Cornerstone of Engineering 2	2
---------	------------------------------	---

Total Hours 58-59

Engineering

Complete 58 semester hours in engineering as indicated below.

Required Courses

EECE 2150 and EECE 2151	Circuits and Signals: Biomedical Applications and Lab for EECE 2150	5
EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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 Fundamental

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 3154	Hyperspectral Imaging in an International Context	
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 5576 to EECE 5698		

Supplemental Credit

2 semester hours from the following course count toward the engineering requirement:

EECE 3468	Noise and Stochastic Processes	2
-----------	--------------------------------	---

Professional Development

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 each of the following courses will apply to the professional development area: 2

GE 1501	Cornerstone of Engineering 1	
GE 1502	Cornerstone of Engineering 2	

Additional NUPath Requirements

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 Elective

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

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	3				
PHYS 1157	1	EECE 2161 (WI)	1				
EECE 2150	4	EE fundamental course	4				
EECE 2151 (AD)	1	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 fundamental course	5	ENGW 3302 (WD)	4	Co-op	0
		EE fundamental course	5	General elective	4		
		CE fundamental 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	4						
EECE 2151 (AD)	1						
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	3					General elective	4
EECE 2161 (WI)	1						
EE fundamental course	4						
General elective	4						
	16		0	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 fundamental course	5	EECE 4790 (EI, WI, CE)	4
General elective	4		
EE fundamental course	5		
CE fundamental 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA required in EECE courses

Mathematics/Science Requirement

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	

Engineering Requirement

Complete 51 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150 and EECE 2151	Circuits and Signals: Biomedical Applications and Lab for EECE 2150	5
EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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		
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 3154	Hyperspectral Imaging in an International Context	
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 5576 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	
2 semester hours from the following course count toward the engineering requirement:		2
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 each of the following courses will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	
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 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						

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Mathematics/Science Requirement

Complete 37 semester hours in mathematics and science as indicated below.

Required Mathematics/Science

CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	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

Engineering

Complete 68 semester hours in engineering as indicated below.

Required Courses

GE 1000	1				
GE 1501	4				
ENGW 1111 (WF)	4				
	22	13	0	0	
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
MATH 2321 (FQ)	4	PHYS 2305 (ND)	4	Vacation	0
MATH 2341	4	EECE 2160	3		
EECE 2150	4	EECE 2161 (WI)	1		
EECE 2151 (AD)	1	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
Co-op	0	PHYS 3602 (ND)	4	PHYS 3600 (ND, AD, WI)	4
		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
Co-op	0	EECE 3468	4	EECE 4790 (EI, WI, CE)	4
		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

EECE 2150 and EECE 2151	Circuits and Signals: Biomedical Applications and Lab for EECE 2150	5
EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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

Up to two courses may be in CS.

Complete four of the following: 16

EECE 2750	Enabling Engineering	
EECE 3154	Hyperspectral Imaging in an International Context	
EECE 4993	Independent Study	
EECE 3324 to EECE 3410		
EECE 4512 to EECE 4698		
EECE 5576 to EECE 5698		
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608	Nanotechnology in Engineering	
CS 3200	Database Design	
CS 3500	Object-Oriented Design	
CS 3540 to CS 3800		
CS 4100 to CS 4650		
CS 4740 to CS 4850		
CS 5010 to CS 5610		
CS 5650 to CS 5850		
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	
---------	------------------------------	--

2 semester hours from the following course count toward the engineering requirement: 2

GE 1502	Cornerstone of Engineering 2	
---------	------------------------------	--

Professional Development**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 each of the following courses will apply to the professional development area: 2

GE 1501	Cornerstone of Engineering 1	
GE 1502	Cornerstone of Engineering 2	

Additional NUpath Courses**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 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

133 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 1801	0		
EECE 2150 or 2160	4 EECE 2160 or 2150	3		
EECE 2151 or 2161 (AD or WI)	1 EECE 2161 or 2151 (WI or AD)	1		
MATH 2341	4 EE or CE fundamentals	4		
General elective	4 EECE 2000	1		
				<hr/>
	18	17	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		
				<hr/>
	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		
				<hr/>
	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
		<hr/>
	0	12

Total Hours: 133

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		
				<hr/>
	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	4			
EECE 2151 or 2161 (AD or WI)	1			
MATH 2341	4			
General elective	4			
				<hr/>
	19	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 1801	0		ENGW 3302 (WD)	4
MATH 2321 (FQ)	4			
EECE 2160 or 2150	3			
EECE 2161 or 2151	1			
EE or CE fundamentals	4			
				<hr/>
	16	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: 133				

Applied Physics, BS/Engineering, MS

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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
General Engineering		
GE 1111	Engineering Problem Solving and Computation	4
Chemistry		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5

Major Requirements

Code	Title	Hours
Introductory Physics		

Physics 1		
Complete one of the following:		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	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	

Physics 2		
Complete one of the following:		
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	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	

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
PHYS 5115	Quantum Mechanics	4

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

Engineering Undergraduate Requirements		
EECE 2150	Circuits and Signals: Biomedical Applications	4
EECE 2412	Fundamentals of Electronics	4
EECE 2520	Fundamentals of Linear Systems	4

Graduate Course Work to Be Taken As an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Code	Title	Hours
Graduate Courses		
Complete the following courses as an undergraduate student. These courses fulfill requirements listed above:		
PHYS 5115	Quantum Mechanics	4
PHYS 5318	Principles of Experimental Physics	4

Applied Physics and Engineering Major Credit Requirement

Complete 70 semester hours in the major.

Program Requirements

135 total semester hours required for the bachelor's degree
 Minimum 3.000 GPA required in all graduate courses

Plan of Study

Five 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 (ND)	4	Vacation	0	Vacation	0
MATH 1341 (FQ)	4	PHYS 1166 (AD)	1				
ENGW 1111 (WF)	4	PHYS 1167	0				
CHEM 1211	4	MATH 1342 (FQ)	4				
CHEM 1212	1	GE 1111	4				
CHEM 1213	0	Open elective	4				
PHYS 1161 (ND)	4						
PHYS 1162 (AD)	1						
PHYS 1163	0						
	19		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
PHYS 2303 (ND)	4	EECE 2150	4	Vacation	0	Co-op	0
PHYS 2371 (ND)	3	EECE 2151 (AD)	1				
PHYS 2372 (EI)	1	PHYS 2305 (ND)	4				
MATH 2321 (FQ)	4	MATH 2341	4				
Open elective	4	EESC 2000	1				
		Open elective	4				
	16		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602 (ND)	4	PHYS 3603 (ND)	4	Co-op	0
		EECE 2412	4	PHYS 3600 (ND, AD, WI)	4		
		EECE 2413 (WI)	1				
		EECE 2520	4				
		ENGW 3315 (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	Open elective	4	Vacation	0

PHYS 5318 (ND, AD, CE)	4	Open elective	4
EECE graduate elective	4		
EECE graduate elective	4		
	0	16	8
			0

Year 5

Fall	Hours	Spring	Hours
EECE graduate elective	4	EECE graduate elective	4
EECE graduate elective	4	EECE graduate elective	4
EECE graduate elective	4	EECE graduate elective	4
Open elective	4	Open elective	4
	16		16

Total Hours: 151

Computer Engineering, BS/Electrical and Computer Engineering, MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA required in EECE courses

Mathematics/Science Requirement

Complete 35 semester hours in mathematics and science as indicated below.

Required Mathematics/Science

CHEM 1151 and CHEM 1153	General Chemistry for Engineers and Recitation for CHEM 1151	4
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4

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

Engineering

Complete 56 semester hours in engineering as indicated below.

Required Courses

EECE 2150 and EECE 2151	Circuits and Signals: Biomedical Applications and Lab for EECE 2150	5
EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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

Up to two courses may be in CS.

Complete four of the following:	16
EECE 2750	Enabling Engineering
EECE 3154	Hyperspectral Imaging in an International Context
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 5576 to EECE 5698

CS 3200 Database Design

CS 3500 Object-Oriented Design

CS 3540 to CS 3800

CS 4100 to CS 4650

CS 4740 to CS 4850

CS 5010 to CS 5610

CS 5650 to CS 5850

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

2 semester hours from the following course count toward the engineering requirement: 2

GE 1502 Cornerstone of Engineering 2

Professional Development**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 each of the following courses will apply to the professional development area: 2

GE 1501 Cornerstone of Engineering 1

GE 1502 Cornerstone of Engineering 2

Additional NUPATH Courses**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 five academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours. 20

Graduate Courses taken as an undergraduate student

Complete two courses that will count toward the Master of Science in consultation with your advisor. 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

131 total semester hours required

Minimum 3.000 GPA required in all graduate coursework

Plan of Study

Five 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 Vacation	Vacation	
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	General Elective	4
PHYS 1155 (ND)	3		General Elective	4
PHYS 1156 (AD)	1			
PHYS 1157	1			
EECE 2150	4			
EECE 2151 (AD)	1			
EECE 2000	1			
EECE 2160	3			
EECE 2161 (WI)	1			
	19	0	0	8

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 1800 (FQ)	4 Co-op	Co-op	MATH 3081 (AD)	4
CE Fundamentals	5		General Elective	4
CE Fundamentals	4			
EE Fundamentals	4			
	17	0	0	8

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
EECE 3000	1 EECE Technical Elective	4 EECE 4790 (EI, WI, CE)	4 Vacation	
CE Fundamentals	4 EECE Graduate Course	4 EECE Technical Elective	4	
EECE Technical Elective	4 EECE Graduate Course	4		
EECE Graduate Course	4 ENGW 3302 or 3315 (WD)	4		
EECE Graduate Course	4			
	17	16	8	0

Year 5

Fall	Hours Spring	Hours
EECE Technical Elective 4	4 EECE 4792 (EI, WI, CE)	4
EEC Graduate Course	4 EECE Graduate Course	4
EECE Graduate Course	4 EECE Graduate Course	4
General Elective	4	
	16	12

Total Hours: 155

Computer Engineering, BS/Engineering Management, MS

Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a limited number of semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

Electrical Engineering, BS/Electrical and Computer Engineering, MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Mathematics/Science Requirement

Complete 33 semester hours in mathematics and science as indicated below.

Required Mathematics/Science

Complete one of the following:	4
CHEM 1151 General Chemistry for Engineers	
CS 1800 Discrete Structures and CS 1801 and Recitation for CS 1800	
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 Physics for Engineering 1	3
PHYS 1152 Lab for PHYS 1151	1
PHYS 1153 Interactive Learning Seminar for PHYS 1151	1
PHYS 1155 Physics for Engineering 2	3
PHYS 1156 Lab for PHYS 1155	1
PHYS 1157 Interactive Learning Seminar for PHYS 1155	1

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	

Engineering

Complete 58 semester hours in engineering as indicated below.

Required Courses

EECE 2150 Circuits and Signals: Biomedical Applications and Lab for EECE 2150	5
EECE 2160 Embedded Design Enabling Robotics and Lab for EECE 2160	4

Electrical Engineering Fundamentals

EECE 2412 Fundamentals of Electronics and Lab for EECE 2413	5
EECE 2520 Fundamentals of Linear Systems	4
EECE 2530 Fundamentals of Electromagnetics and Lab for EECE 2531	5

Computer Engineering Fundamentals

Complete one of the following	4-5
EECE 2322 Fundamentals of Digital Design and and EECE 2323 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

Up to two courses may be in CS.	
Complete four of the following:	16
EECE 2750 Enabling Engineering	
EECE 3154 Hyperspectral Imaging in an International Context	
EECE 4993 Independent Study	
EECE 3324 to EECE 3410	
EECE 4512 to EECE 4698	
EECE 5576 to EECE 5698	
ENGR 5670 Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608 Nanotechnology in Engineering	
CS 3200 Database Design	
CS 3500 Object-Oriented Design	
CS 3540 to CS 3800	
CS 4100 to CS 4650	
CS 4740 to CS 4850	
CS 5010 to CS 5610	
CS 5650 to CS 5850	
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	
2 semester hours from the following course count toward the engineering requirement:	2
GE 1502 Cornerstone of Engineering 2	

Professional Development

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 each of the following courses will apply to the professional development area:	2
GE 1501 Cornerstone of Engineering 1	
GE 1502 Cornerstone of Engineering 2	

Additional NUpath Courses

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 5 academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours. 20

Graduate Courses taken as an undergraduate student

Complete two courses that will count toward the Master of Science in consultation with your advisor. 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

132 total semester hours required to complete the bachelors degree.

Minimum 3.000 GPA required in all graduate coursework

Plan of Study

Five 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	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		General Elective	4
PHYS 1155 (ND)	3					General Elective	4
PHYS 1156 (AD)	1						
PHYS 1157	1						
EECE 2150	4						
EECE 2151 (AD)	1						
EECE 2000	1						

EECE 2160	3			
EECE 2161 (WI)	1			
	19	0	0	8

Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321 (FQ)	4	Co-op		Co-op		EECE Technical Elective	4
EE Fundamental:	5					General Elective	4
CE Fundamentals	4						
EE Fundamental:	4						
	17	0	0				8

Year 4								
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	
EECE 3000	1	ENGW 3302 (WD)	4	EECE Technical Elective		4	Vacation	0
EECE 3468	4	EECE Technical Elective	4	EECE 4790 (EI, WI, CE)		4		
EE Fundamentals	5	Graduate Course	4					
Graduate Course	4	Graduate Course	4					
Graduate Course	4							
	18		16			8		0

Year 5			
Fall	Hours	Spring	Hours
EECE Technical Elective	4	EECE 4792 (EI, WI, CE)	4
General Elective	4	Graduate Course	4
Graduate Course	4	Graduate Course	4
Graduate Course	4		
	16		12

Total Hours: 156

Electrical Engineering, BS/Engineering Management, MS

Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a limited number of semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

Biomedical Engineering, Minor

Medical imaging and biomedical electronics are important areas of biomedical engineering that are within the province of electrical engineering. The minor in biomedical engineering is open to all students

in the university with the prerequisite calculus and physics background. The minor is particularly designed for majors in electrical or computer engineering, biology, health science fields, or other engineering departments who would like a background in relevant aspects of biology and electrical engineering, with the opportunity to complete an interdisciplinary biomedical engineering capstone design project. Course work in anatomy and physiology and other health science topics is combined with technical engineering courses related to biomedical imaging and instrumentation. Specific curriculum information about the biomedical engineering minor may be obtained from the Department of Electrical and Computer Engineering office, 411 Dana Research Center, from the department website (<http://www.ece.neu.edu>), or by calling 617.373.2165.

Minor Requirements

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

Note: Students must file a petition with the coordinator of undergraduate services in 404 Dana to declare the minor prior to taking any course work. A minimum GPA of 2.000 is required.

Required Biology

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.

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:

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.

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

Computational Data Analytics, Minor

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.

Probability and Statistics

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

Required Courses

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

Elective

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 3200	Database Design
CS 4240	Large-Scale Parallel Data Processing
CS 4800	Algorithms and Data
CS 5200	Database Management Systems
CS 5750	Social Computing
IE 4515	Operations Research
IE 5640	Data Mining for Engineering Applications
IS 4200	Information Retrieval
IS 4700	Social Information Systems
MATH 4525	Applied Analysis

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. For additional information contact Ellen M. Zierk, ezierk@ece.neu.edu.

Minor Requirements

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

Note: Students must file a petition with the coordinator of undergraduate services in 404 Dana to declare the minor prior to taking any course work. A minimum GPA of 2.000 is required. 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

EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	4
-------------------------	---------------------------------------------------------	---

Required Fundamental Courses

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.

Complete one of the following: 4-8

EECE 3154	Hyperspectral Imaging in an International Context
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

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. For additional information, contact Ellen M. Zierk, ezierk@ece.neu.edu.

Minor Requirements

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

Note: Students must file a petition with the coordinator of undergraduate services in 404 Dana to declare the minor prior to taking any course work. A minimum GPA of 2.000 is required. 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

Complete one of the following: 5

EECE 2150 and EECE 2151	Circuits and Signals: Biomedical Applications and Lab for EECE 2150
EECE 2210 and EECE 2211	Electrical Engineering and Lab for EECE 2210

Fundamental Core Courses

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

Fundamentals not taken to satisfy the above requirement may be used as a technical elective.

Complete one of the following: 4

EECE 3154	Hyperspectral Imaging in an International Context
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

Mechanical and Industrial Engineering

Website (<http://www.mie.neu.edu>)

Hanchen Huang, PhD

Professor and Chair

Andrew Gouldstone, PhD

Associate Professor, Associate Chair, and Director of Mechanical Engineering

Emanuel S. Melachrinoudis, PhD

Associate Professor, Associate Chair, and Director of Industrial Engineering

Nader Jalili, PhD

Professor and Associate Chair of Graduate Studies and Research

334 Snell Engineering Center

617.373.2740

617.373.2921 (fax)

The Department of Mechanical and Industrial Engineering offers two accredited programs leading to a Bachelor of Science in Industrial Engineering and a Bachelor of Science in Mechanical Engineering. Five-year Bachelor of Science/Master of Science dual-degree programs in the above two disciplines are also available. In addition, the department offers the following minors:

- Minor in industrial engineering
- Minor in mechanical engineering
- Minor in biomechanical engineering

Our mission is to educate persons for professional and technical excellence; to perform research to advance the science and practice of engineering; to engage in service activities that advance the department, the university, and the profession; and to instill in ourselves and our students habits and attitudes that promote ethical behavior, professional responsibility, and careers that advance the well-being of society.

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, while satisfying the expectations of their employers and displaying leadership in the larger community.

2. Graduates will engage in activities that promote professional development and personal growth.

Industrial Engineering

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 manufacturing system, facilities planning for a variety of industries, design of a robotics system in a manufacturing environment, long-range corporate planning, development and implementation of a quality-control system, simulation analyses to improve processes and make operational decisions, design of workstations to enhance worker safety and productivity, and development of computer systems for information control.

More than 90 percent of department undergraduate students take advantage of the cooperative education program. Cooperative education assignments generally increase in level of responsibility as students gain theoretical and technical knowledge through their academic work. A sophomore might begin as a computer analyst evaluating the performance of a manufacturing system and progress to designing manufacturing engineering workstations by the senior year.

Mechanical Engineering

Mechanical engineering involves the design, development, and manufacture of machinery and devices to transmit power or to convert energy from thermal to mechanical form in order to power the modern world and its machines. Its current practice has been heavily influenced by recent advances in computer hardware and software.

Mechanical engineers use computers to formulate preliminary and final designs of systems or devices, to perform calculations that predict the behavior of the design, and to collect and analyze performance data from system testing or operation.

Traditionally, mechanical engineers have designed and tested devices, such as heating and air-conditioning systems, machine tools, internal-combustion engines, and steam power plants. Today they also play primary roles in the development of new technologies in a variety of fields—energy conversion, solar energy utilization, environmental control, prosthetics, transportation, manufacturing, and new-materials development.

The curriculum in mechanical engineering focuses on 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.

Programs

Bachelor of Science in Industrial Engineering (BSIE)

- Industrial Engineering, BSIE (p. 403)

Bachelor of Science in Mechanical Engineering (BSME)

- Mechanical Engineering, BSME (p. 405)
- Mechanical Engineering and Physics, BSME (p. 408)

Dual Degrees

- Industrial Engineering, BSIE/MS (p. 409)
- Industrial Engineering, BSIE/Energy Systems, MS (p. 412)
- Industrial Engineering, BSIE/Engineering Management, MS (p. 415)
- Industrial Engineering, BSIE/Operations Research, MS (p. 418)
- Mechanical Engineering, BS/MS (p. 422)
- Mechanical Engineering, BS/Energy Systems, MS (p. 425)
- Mechanical Engineering, BS/Engineering Management, MS (p. 428)

Minors

- Biomechanical Engineering (p. 431)
- Industrial Engineering (p. 432)
- Mechanical Engineering (p. 432)

Industrial Engineering, BSIE

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Mathematics/Science Requirement

Complete 39 semester hours in mathematics and science as indicated below.

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

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 semester hours from the following course count toward the mathematics/science requirement:		2
IE 4515	Operations Research	
2 semester hours from the following course count toward the mathematics/science requirement:		2
IE 4520	Stochastic Modeling	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Engineering

Complete 57 semester hours in engineering as indicated below.

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

2 semester hours from the following course count toward the engineering requirement: 2

GE 1502 Cornerstone of Engineering 2

Professional Development

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 each of the following courses will apply to the professional development area: 2

GE 1501 Cornerstone of Engineering 1

GE 1502 Cornerstone of Engineering 2

Additional NUPath Courses

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 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

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
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				
PHYS 1155 (ND)	3						
PHYS 1156 (AD)	1						
PHYS 1157	1						
	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	IE 4530	4	Co-op	0
		IE 4520	4	IE 4531	1		
		IE 4525	4	MEIE 4701 (EI, WI, CE)	1		
		Technical elective	4	General Elective	4		
		General Elective	4				
	0		17		10		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			
PHYS 1155 (ND)	3			
PHYS 1156 (AD)	1			
PHYS 1157	1			
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 IE 4530	4
IE 3412 (AD)	4		IE 4531	1
IE 4512	4		General Elective	4
MATH 2341	4			
	16	0	0	9

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			
General Elective	4			
	17	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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Mathematics/Science Requirement

Complete 35 semester hours in mathematics and science as indicated below:

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:

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
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab 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
MATH 3081	Probability and Statistics	4
MATH 2310	Discrete Mathematics	4
PHYS 2303	Modern Physics	4
PHYS 3601	Classical Dynamics	4
PHYS 3602	Electricity and Magnetism	4

Supplemental Credit

1 semester hour from the following course counts toward the mathematics/science requirement:

GE 1502	Cornerstone of Engineering 2	1
---------	------------------------------	---

Engineering

Complete 68 semester hours in engineering as indicated below:

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:

EMGT, ENGR, IE, ME, or MEIE.	4
------------------------------	---

Supplemental Credit

3 semester hours from the following course counts toward the engineering requirement:

GE 1501	Cornerstone of Engineering 1	3
---------	------------------------------	---

2 semester hours from the following course counts toward the engineering requirement:

GE 1502 Cornerstone of Engineering 2

Professional Development

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 each of the following courses will apply to the professional development area:

GE 1501	Cornerstone of Engineering 1	2
GE 1502	Cornerstone of Engineering 2	

Additional NUPATH Courses

Writing

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	

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 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

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

Mechanical Engineering and Physics, BSME

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA required in IE, ME, and MEIE courses

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: PHYS 3600 to PHYS 5999	4
---------------------------------------------------------------------------------------	---

Supplemental Credit

1 semester hour from the following course counts toward the mathematics/science requirement:

GE 1502	Cornerstone of Engineering 2	1
---------	------------------------------	---

Engineering Requirement

Complete 59 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:

GE 1501	Cornerstone of Engineering 1	3
---------	------------------------------	---

2 semester hours from the following course counts toward the engineering requirement:

GE 1502	Cornerstone of Engineering 2	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 each of the following courses will apply to the professional development area:

GE 1501	Cornerstone of Engineering 1	
GE 1502	Cornerstone of Engineering 2	

Additional 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.

Required General Electives

Complete 2 academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

Integrative Requirement

Principles of Experimental Physics (PHYS 5318) is part of the mathematics/science requirement above and is an integrative course.

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

Industrial Engineering, BSIE/MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Mathematics/Science Requirement

Complete 39 semester hours in mathematics and science as indicated below.

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

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 semester hours from the following course count toward the mathematics/science requirement:		2
IE 4515	Operations Research	
2 semester hours from the following course count toward the mathematics/science requirement:		2
IE 4520	Stochastic Modeling	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Engineering

Complete 57 semester hours in engineering as indicated below.

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	
2 semester hours from the following course count toward the engineering requirement:		2
GE 1502	Cornerstone of Engineering 2	

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 each of the following courses will apply to the professional development area:	2	
GE 1501	Cornerstone of Engineering 1	
GE 1502	Cornerstone of Engineering 2	

Graduate Course Work Taken Toward the PlusOne Program

Minimum 3.000 GPA required in graduate courses

Required Courses

IE 6200	Engineering Probability and Statistics	4
OR 6205	Deterministic Operations Research	4
If comparable undergraduate courses IE 3412 (or MATH 3081) and IE 4515 have been taken with a B+ or higher, IE 6200 and OR 6205, respectively, can be waived and substituted with other graduate courses.		
Complete two of the following:		8
IE 7200	Supply Chain Engineering	
IE 7215	Simulation Analysis	
IE 7275	Data Mining in Engineering	
IE 7315	Human Factors Engineering	
IE 5400	Healthcare Systems Modeling and Analysis	

The remaining 16 credits can be taken by one of the following three options: 16

1. IE 7990—Thesis (8 credits), MEIE 6850 Research Seminar (0 credits), and two graduate electives (total of 8 credits) from the list below.
2. IE 7945—Master’s Project (4 credits), MEIE 6850 Research Seminar (0 credits), and three graduate electives (total of 12 credits) from the list below.
3. Four courses (total of 16 credits) from the list below.

Graduate Electives

Note: Students may choose any of the following electives. Students may take other course work with the approval of their advisor. For courses outside the list below, a petition form must be submitted to the student’s advisor and approved by the Graduate School of Engineering.

CSYE 6200	Concepts of Object-Oriented Design
CSYE 6205	Concepts of Object-Oriented Design with C++
CSYE 6210	Component Software Development
CSYE 6220	Enterprise Software Design
CSYE 7230	Software Engineering
CSYE 7270	Building Virtual Environments
CSYE 7280	User Experience Design and Testing
EMGT 5220	Engineering Project Management
EMGT 5300	Engineering/Organizational Psychology
EMGT 6225	Economic Decision Making
EMGT 6305	Financial Management for Engineers
IE 5617	Lean Concepts and Applications
IE 5620	Mass Customization
IE 5630	Biosensor and Human Behavior Measurement
IE 6300	Manufacturing Methods and Processes
IE 7255	Manufacturing Processes
IE 7270	Intelligent Manufacturing
IE 7275	Data Mining in Engineering
IE 7280	Statistical Methods in Engineering
IE 7285	Statistical Quality Control
IE 7290	Reliability Analysis and Risk Assessment
IE 7315	Human Factors Engineering
OR 7230	Probabilistic Operation Research
OR 7235	Inventory Theory
OR 7240	Integer and Nonlinear Optimization
OR 7245	Network Analysis and Advanced Optimization
OR 7250	Multi-Criteria Decision Making
OR 7260	Constraint Programming
OR 7310	Logistics, Warehousing, and Scheduling

Additional NUPath Courses

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 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

153 total semester hours required for the BS/MS degree
Minimum GPA of 3.000 required in graduate courses

Plan of Study

Five Years, Two Co-ops in Summer 2/Fall

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	Hours
MATH 1341 (FQ)	4	MATH 1342 (FQ)	4	Vacation	0	Vacation	0	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	Hours
MATH 2321 (FQ)	4	MATH 2341	4	Vacation	0	Co-op	0	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					
PHYS 1155 (ND)	3							
PHYS 1156 (AD)	1							
PHYS 1157	1							
	17		17		0		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	Hours
Co-op	0	IE 4516	4	Vacation	0	Co-op	0	0

IE 4515	4			
Technical elective	4			
IE 4510	4			
0	16	0	0	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 MEIE 3000	1 IE 4530	4 Graduate course	4
	IE 4520	4 IE 4531	1 ENGW 3302 (WD)	4
	IE 4525	4 MEIE 4701 (EI, WI, CE)	1	
	Graduate course	4 Graduate course	4	
	Graduate course	4		
0	17	10	8	

Year 5

Fall	Hours Spring	Hours
Graduate course	4 MEIE 4702 (EI, WI, CE)	5
Technical elective	4 IE 4522	4
General elective	4 IE 4523	1
MEIE 6850	0 Graduate course	4
Graduate course	4 Graduate course	4
16	18	

Total Hours: 153

Five 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 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			

PHYS 1155 (ND)	3			
PHYS 1156 (AD)	1			
PHYS 1157	1			
MEIE 2000	1			
18	0	0	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
IE 3412 (AD)	4 Co-op	0 Co-op	0 IE 4530	4
Technical elective	4		IE 4531	1
IE 4512	4		ENGW 3302 (WD)	4
MATH 2341	4			
16	0	0	9	

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
IE 4510	4 Graduate course	4 Graduate course	4 Graduate course	4
IE 4515	4 Graduate course	4		
IE 4516	4 General elective	4		
MEIE 3000	1 General elective	4		
Technical elective	4			
17	16	4	4	

Year 5

Fall	Hours Spring	Hours
IE 4520	4 MEIE 4702 (EI, WI, CE)	5
IE 4525	4 IE 4522	4
MEIE 4701 (EI, WI, CE)	1 IE 4523	1
MEIE 6850	0 Graduate course	4
Graduate course	4 Graduate course	4
Graduate course	4	
17	18	

Total Hours: 153

Industrial Engineering, BSIE/ Energy Systems, MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA required in IE and MEIE courses

Mathematics/Science Requirement

Complete 39 semester hours in mathematics and science as indicated below.

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

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 semester hours from the following course count toward the mathematics/science requirement:		2
IE 4515	Operations Research	
2 semester hours from the following course count toward the mathematics/science requirement:		2
IE 4520	Stochastic Modeling	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Engineering

Complete 57 semester hours in engineering as indicated below.

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:

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	
2 semester hours from the following course count toward the engineering requirement:		2
GE 1502	Cornerstone of Engineering 2	

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 each of the following courses will apply to the professional development area:

GE 1501	Cornerstone of Engineering 1	
GE 1502	Cornerstone of Engineering 2	

Graduate Courses taken toward the PlusOne program

Minimum 3.000 GPA required in graduate courses

Required Courses

ENSY 5000	Fundamentals of Energy System Integration	4
ACCT 6200	Financial Reporting and Managerial Decision Making 1	3
ACCT 6201	Financial Reporting and Managerial Decision Making 2	1.5
FINA 6200	Value Creation through Financial Decision Making	3

EMGT 6225	Economic Decision Making	4
ME 6200	Mathematical Methods for Mechanical Engineers 1	4

The remaining 16 credits can be taken from the list below:

Graduate Electives

Approved electives for the MS in Energy Systems: 16

ARCH 5210	Environmental Systems	
CHEM 5651	Materials Chemistry of Renewable Energy	
CHEM 5652	Fundamental Science of Photovoltaics	
CHME 5204	Heterogeneous Catalysis	
CHME 5630	Biochemical Engineering	
CIVE 5270	Environmental Protection and Management	
EECE 5680	Electric Drives	
EECE 5682	Power Systems Analysis 1	
EECE 5684	Power Electronics	
EECE 5686	Electrical Machines	
EECE 7239	Special Topics in Power Systems	
EECE 7398	Special Topics	
EMGT 5220	Engineering Project Management	
ENSY 5XXX		
ENSY 7374	Special Topics in Energy Systems	
ENSY 7978	Independent Study	
LPSC 7312	Cities, Sustainability, and Climate Change	
ME 5645	Environmental Issues in Manufacturing and Product Use	
ME 5690	Gas Turbine Combustion	
ME 7270	General Thermodynamics	
ME 7300	Combustion and Air Pollution	
ME 7305	Fundamentals of Combustion	
ME 5685	Solar Thermal Engineering	
OR 6205	Deterministic Operations Research	
PPUA 7238	Climate Change and Urbanization in Developing Countries	

Additional NUPath Courses

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 Elective

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 Requirements

156.5 total semester hours required for the BS/MS degree

Minimum 3.000 GPA required in graduate courses

Plan of Study

Five 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	Vacation		Vacation	
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		Co-op	
PHYS 1155 (ND)	3	IE 3412 (AD)	4				
PHYS 1156 (AD)	1	IE 4512	4				
PHYS 1157	1	General Elective	4				
IE 2310 (WI)	4	MEIE 2000	1				
IE 2311	0						
IE 3425	4						
IE 3426	0						
	17		17		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		IE 4510	4	IE 4530	4	Co-op	
		IE 4515	4	IE 4531	1		
		IE 4516	4				
		Technical elective	4				
	0		16		5		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ACCT 6200	3	EMGT 6225	4	ENGW 3302 (WD)	4
		IE 4520	4	Graduate elective	4	Graduate elective	4

IE 4525	4	MEIE 4701 (EI, WI, CE)	1	
MEIE 3000	1			
ME 6200	4			
	0	16	9	8

Year 5

Fall	Hours Spring	Hours
Undergraduate Technical elective	4 MEIE 4702 (EI, WI, CE)	5
General Elective	4 Graduate elective	4
ENSY 5000	4 Graduate elective	4
ACCT 6201	1.5 IE 4522	4
FINA 6200	3 IE 4523	1
	16.5	18

Total Hours: 156.5

Five 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 Vacation	Vacation	
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	Co-op	Vacation	
PHYS 1155 (ND)	3			
PHYS 1156 (AD)	1			
PHYS 1157	1			
IE 2310 (WI)	4			
IE 2311	0			
IE 3425	4			
MEIE 2000	1			
IE 3426	0			
	18	0	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MATH 2341	4 Co-op	Co-op	IE 4530	4
IE 3412 (AD)	4		IE 4531	1
IE 4512	4		ENGW 3302 (WD)	4

Technical elective	4			
	16	0	0	9

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
IE 4510	4 ACCT 6200	3 EMGT 6225	4 Graduate elective	4
IE 4515	4 ME 6200	4 Graduate elective	4 General Elective	4
IE 4516	4 Technical elective 2	4		
MEIE 3000	1 General elective	4		
ENSY 5000	4			
	17	15	8	8

Year 5

Fall	Hours Spring	Hours
MEIE 4701 (EI, WI, CE)	1 MEIE 4702 (EI, WI, CE)	5
IE 4520	4 Graduate elective	4
IE 4525	4 Graduate elective	4
ACCT 6201	1.5 IE 4522	4
FINA 6200	3 IE 4523	1
	13.5	18

Total Hours: 156.5

Industrial Engineering, BSIE/Engineering Management, MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA required in IE and MEIE courses

Mathematics/Science Requirement

Complete 39 semester hours in mathematics and science as indicated below.

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

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 semester hours from the following course count toward the mathematics/science requirement:		2
IE 4515	Operations Research	
2 semester hours from the following course count toward the mathematics/science requirement:		2
IE 4520	Stochastic Modeling	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Engineering

Complete 57 semester hours in engineering as indicated below.

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 from 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	
2 semester hours from the following course count toward the engineering requirement:		2
GE 1502	Cornerstone of Engineering 2	

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 each of the following courses will apply to the professional development area:		2
GE 1501	Cornerstone of Engineering 1	
GE 1502	Cornerstone of Engineering 2	

Graduate Course Taken Toward the PlusOne Program

Minimum 3.000 GPA required in graduate courses

Required Courses

EMGT 6225	Economic Decision Making	4
EMGT 5220	Engineering Project Management	4
IE 6200	Engineering Probability and Statistics	4
OR 6205	Deterministic Operations Research	4

If comparable undergraduate courses IE 3412 (or MATH 3081) and IE 4515 have been taken with a B+ or higher, IE 6200 and OR 6205, respectively, can be waived and substituted with other graduate courses.

The remaining 16 credits can be taken by one of the following three options:

1. EMGT 7990— Thesis (8 credits) and two graduate electives (total of 8 credits) from the list below.
2. EMGT 7945—Masters Project (4 credits) and three graduate electives (total of 12 credits) from the list below.
3. Four courses (total of 16 credits) from the list below.

Graduate Electives

Note: Students may choose any of the following electives and are not bound to any one category. The courses appear under various subject headings for information purposes only. Students may take other course work with the approval of their advisor. For courses outside the list below, a petition form must be submitted to the student's advisor and approved by the Graduate School of Engineering.

Operations Research

OR 7230	Probabilistic Operation Research	
OR 7235	Inventory Theory	

OR 7240	Integer and Nonlinear Optimization
OR 7245	Network Analysis and Advanced Optimization
OR 7250	Multi-Criteria Decision Making
<i>Industrial Engineering</i>	
IE 7315	Human Factors Engineering
IE 7280	Statistical Methods in Engineering
IE 7615	Neural Networks in Engineering
<i>Manufacturing</i>	
IE 6300	Manufacturing Methods and Processes
IE 5620	Mass Customization
IE 7270	Intelligent Manufacturing
<i>Quality and Reliability</i>	
IE 7280	Statistical Methods in Engineering
IE 7285	Statistical Quality Control
IE 7290	Reliability Analysis and Risk Assessment
<i>Computer Systems Engineering</i>	
CSYE 6200	Concepts of Object-Oriented Design
CSYE 6210	Component Software Development
CSYE 6220	Enterprise Software Design
CSYE 7230	Software Engineering
CSYE 7270	Building Virtual Environments
CSYE 7280	User Experience Design and Testing
IE 7315	Human Factors Engineering
IE 7615	Neural Networks in Engineering
<i>Engineering Management</i>	
EMGT 5300	Engineering/Organizational Psychology
EMGT 6305	Financial Management for Engineers
OR 7310	Logistics, Warehousing, and Scheduling
<i>Information Systems</i>	
INFO 6215	Business Analysis and Information Engineering
INFO 6210	Data Management and Database Design
INFO 7260	Business Process Engineering
INFO 7285	Organizational Change and IT
INFO 7390	Advances in Data Sciences and Architecture
INFO 7290	Data Warehousing and Business Intelligence
INFO 7330	Information Systems for Healthcare-Services Delivery
<i>Supply Chain Management</i>	
SCHM 6210	Supply Chain Management
SCHM 6212	Executive Roundtable in Supply Chain Management
SCHM 6213	Global Supply Chain Strategy
<i>Technological Entrepreneurship</i>	
TECE 6200	Innovation and Entrepreneurial Growth
TECE 6230	Entrepreneurial Marketing and Selling
TECE 6300	Managing a Technology-Based Business

Additional NUPath Courses

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 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 Requirements

153 total semester hours required for the BS/MS degree
Minimum 3.000 GPA required in graduate courses

Plan of Study

Five 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	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	IE 3412 (AD)	4	Vacation	0	Co-op	0
IE 2310 (WI)	4	IE 4512	4				
IE 2311	0	MATH 2341	4				
IE 3425	4	MEIE 2000	1				
IE 3426	0	General elective	4				
PHYS 1155 (ND)	3						
PHYS 1156 (AD)	1						

PHYS 1157	1				
	17	17	0	0	
Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
Co-op	IE 4510	4 Vacation	Co-op		
	IE 4515	4			
	IE 4516	4			
	Technical elective	4			
	0	16	0	0	
Year 4					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
Co-op	EMGT 6225	4 IE 4530	4 ENGW 3302 (WD)	4	
	IE 4520	4 IE 4531	1 Graduate course	4	
	IE 4525	4 MEIE 4701 (EI, WI, CE)	1		
	MEIE 3000	1 Graduate course	4		
	Graduate course	4			
	0	17	10	8	
Year 5					
Fall	Hours Spring	Hours			
OR 6205	4 MEIE 4702 (EI, WI, CE)	5			
Technical elective	4 IE 4522	4			
General elective	4 IE 4523	1			
Graduate course	4 EMGT 5220	4			
	Graduate course	4			
	16	18			

Total Hours: 153

Five 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 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	Co-op	Vacation	0	

IE 2310 (WI)	4				
IE 2311	0				
IE 3425	4				
IE 3426	0				
PHYS 1155 (ND)	3				
PHYS 1156 (AD)	1				
PHYS 1157	1				
MEIE 2000	1				
	18	0	0	0	

Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
IE 3412 (AD)	4 Co-op	Co-op	ENGW 3302 (WD)	4	
IE 4512	4		IE 4530	4	
MATH 2341	4		IE 4531	1	
Technical elective	4				
	16	0	0	9	

Year 4					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
IE 4510	4 EMGT 6225	4 Graduate course	4 Graduate course	4	
IE 4515	4 General elective	4			
IE 4516	4 General elective	4			
MEIE 3000	1 Graduate course	4			
Technical elective	4				
	17	16	4	4	

Year 5					
Fall	Hours Spring	Hours			
IE 4520	4 MEIE 4702 (EI, WI, CE)	5			
IE 4525	4 IE 4522	4			
MEIE 4701 (EI, WI, CE)	1 IE 4523	1			
OR 6205	4 EMGT 5220	4			
Graduate course	4 Graduate course	4			
	17	18			

Total Hours: 153

Industrial Engineering, BSIE/ Operations Research, MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA required in IE and MEIE courses

Mathematics/Science Requirement

Complete 39 semester hours in mathematics and science as indicated below.

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

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 semester hours from the following course count toward the mathematics/science requirement:		2
IE 4515	Operations Research	
2 semester hours from the following course count toward the mathematics/science requirement:		2
IE 4520	Stochastic Modeling	
1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Engineering

Complete 57 semester hours in engineering as indicated below.

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:

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	
2 semester hours from the following course count toward the engineering requirement:		2
GE 1502	Cornerstone of Engineering 2	

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 each of the following courses will apply to the professional development area:

GE 1501	Cornerstone of Engineering 1	
GE 1502	Cornerstone of Engineering 2	

Graduate Courses Taken Toward the PlusOne Program

Minimum 3.000 GPA required in graduate courses

Required Courses

IE 6200	Engineering Probability and Statistics	4
OR 6205	Deterministic Operations Research	4
OR 7230	Probabilistic Operation Research	4
OR 7245	Network Analysis and Advanced Optimization	4
or MATH 7234	Optimization and Complexity	

If comparable undergraduate courses IE 3412 (or MATH 3081) and IE 4515 have been taken with a B+ or higher, IE 6200 and OR 6205, respectively, can be waived and substituted with other graduate courses.

The remaining 16 credits can be taken by one of the following three options: 16

1. OR 7990—Thesis (8 credits), MEIE 6850 Research Seminar (0 credits), and two graduate electives (total of 8 credits) from the list below.
2. OR 7945—Master's Project (4 credits), MEIE 6850 Research Seminar (0 credits), and three graduate electives (total of 12 credits) from the list below.
3. Four courses (total of 16 credits) from the list below.

Graduate Electives

Note: Students may choose any of the following electives and are not bound to any one category. The courses appear under various subject headings for information purposes only. Students may take other course work with the approval of their advisor. For courses outside the list below, a petition form must be submitted to the student's advisor and approved by the Graduate School of Engineering.

Operations Research

OR 7235	Inventory Theory
OR 7240	Integer and Nonlinear Optimization
OR 7250	Multi-Criteria Decision Making
OR 7260	Constraint Programming
OR 7310	Logistics, Warehousing, and Scheduling
EECE 7360	Combinatorial Optimization

Industrial and Systems Engineering

IE 5400	Healthcare Systems Modeling and Analysis
IE 5500	Systems Engineering in Public Programs
IE 5617	Lean Concepts and Applications
IE 5620	Mass Customization
IE 5630	Biosensor and Human Behavior Measurement
IE 6300	Manufacturing Methods and Processes
IE 7615	Neural Networks in Engineering
IE 7200	Supply Chain Engineering
IE 7215	Simulation Analysis
IE 7270	Intelligent Manufacturing
IE 7275	Data Mining in Engineering
IE 7280	Statistical Methods in Engineering
IE 7285	Statistical Quality Control
IE 7290	Reliability Analysis and Risk Assessment
IE 7315	Human Factors Engineering

Computer Science/Information Systems

CS 6140	Machine Learning
CS 7805	Theory of Computation
CSYE 6200	Concepts of Object-Oriented Design
EECE 7313	Pattern Recognition
INFO 6205	Program Structure and Algorithms
INFO 6210	Data Management and Database Design

CSYE 6200	Concepts of Object-Oriented Design
CSYE 7280	User Experience Design and Testing

Engineering Management

EMGT 5220	Engineering Project Management
EMGT 5300	Engineering/Organizational Psychology
EMGT 6225	Economic Decision Making
EMGT 6305	Financial Management for Engineers

Mathematics

MATH 7232	Combinatorial Analysis
MATH 7233	Graph Theory
MATH 7342	Mathematical Statistics
MATH 7346	Time Series
MATH 7347	Statistical Decision Theory
MATH 7349	Stochastic Calculus and Introduction to No-Arbitrage Finance

Additional NUPath Courses

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 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 Requirements

153 total semester hours required for the BS/MS degree
Minimum 3.000 GPA required in all graduate courses

Plan of Study

Five 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	Vacation	4	Vacation	4
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	Co-op	
PHYS 1155 (ND)	3 IE 3412 (AD)	4		
PHYS 1156 (AD)	1 IE 4512	4		
PHYS 1157	1 General elective	4		
IE 2310 (WI)	4 MEIE 2000	1		
IE 3425	4			
IE 2311	0			
IE 3426	0			
	17	17	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	IE 4515	4 ENGW 3302 (WD)	4 Co-op	
	IE 4516	4 General elective	4	
	IE 4510	4		
	Undergraduate technical elective	4		
	0	16	8	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	IE 4520	4 IE 4530	4 Vacation	
	IE 4525	4 IE 4531	1	
	MEIE 3000	1 Graduate elective	4	
	IE 6200	4 MEIE 4701 (EI, WI, CE)	1	
	Graduate elective	4		
	0	17	10	0

Year 5

Fall	Hours Spring	Hours
Undergraduate technical elective	4 MEIE 4702 (EI, WI, CE)	5
MEIE 6850	0 IE 4522	4
OR 6205	4 IE 4523	1
Graduate elective	4 OR 7230	4
Graduate elective	4 OR 7245	4
	16	18

Total Hours: 153

Five 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 Vacation	Vacation	
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	Co-op	Vacation	
PHYS 1155 (ND)	3			
PHYS 1156 (AD)	1			
PHYS 1157	1			
IE 2310 (WI)	4			
IE 3425	4			
IE 2311	0			
IE 3426	0			
MEIE 2000	1			
	18	0	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MATH 2341	4 Co-op	Co-op	IE 4530	4
IE 3412 (AD)	4		IE 4531	1
IE 4512	4		ENGW 3302 (WD)	4
Undergraduate technical elective	4			
	16	0	0	9

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
IE 4515	4 General elective	4 Graduate elective	4 Vacation	
IE 4516	4 IE 6200	4 Graduate elective	4	
IE 4510	4 General elective	4		
Undergraduate technical elective	4 Graduate elective	4		
MEIE 3000	1			
	17	16	8	0

Year 5		
Fall	Hours Spring	Hours
IE 4520	4 MEIE 4702 (EI, WI, CE)	5
IE 4525	4 IE 4522	4
MEIE 4701 (EI, WI, CE)	1 IE 4523	1
OR 6205	4 OR 7230	4
Graduate elective	4 OR 7245	4
MEIE 6850	0	
	17	18

Total Hours: 153

Mechanical Engineering, BS/MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Mathematics/Science Requirement

Complete 35 semester hours in mathematics and science as indicated below:

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
---------------------------------------------	---------------------------------------------------------------------------------------------------------	---

Math/Science 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	
---------	------------------------------	--

Engineering

Complete 68 semester hours in engineering as indicated below:

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	
2 semester hours from the following course counts toward the engineering requirement:	2
GE 1502 Cornerstone of Engineering 2	

Professional Development

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 each of the following courses will apply to the professional development area:	2
GE 1501 Cornerstone of Engineering 1	
GE 1502 Cornerstone of Engineering 2	

Additional NUPATH Courses

Writing

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	

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 2 academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

Graduate Courses taken as an Undergraduate Student

A 3.000 GPA is required in all graduate courses.

Complete the following course:

MEIE 6850 Research Seminar in Mechanical and Industrial Engineering	0
--------------------------------------------------------------------------	---

Complete up to 32 SH from the following list or from one of the concentrations below. These courses may double count in the above requirements.

ME 7990 Thesis	0-32
MATL 5000 TO MATL 7999	
ME 5000 TO ME 7999	

MATERIAL SCIENCE CONCENTRATION COURSES

ME 5600 Materials Processing and Process Selection	
---------------------------------------------------------	--

MECHANICS CONCENTRATION COURSES

ME 5650 Advanced Mechanics of Materials	
ME 5655 Dynamics and Mechanical Vibration	
ME 5657 Finite Element Method	
ME 5659 Control Systems Engineering	

ME 6200 Mathematical Methods for Mechanical Engineers 1	
or ME 6201 Mathematical Methods for Mechanical Engineers 2	
ME 7210 Elasticity and Plasticity	
THERMOFLUIDS CONCENTRATION COURSES	
ME 5690 Gas Turbine Combustion	
ME 5695 Aerodynamics	
ME 6200 Mathematical Methods for Mechanical Engineers 1	
or ME 6201 Mathematical Methods for Mechanical Engineers 2	
ME 7270 General Thermodynamics	
ME 7275 Essentials of Fluid Dynamics	
ME 7280 Statistical Thermodynamics	
ME 7285 Heat Conduction and Thermal Radiation	
or ME 7290 Convective Heat Transfer	
ME 7295 Multiscale Flow and Transport Phenomena	
ME 7300 Combustion and Air Pollution	
ME 7305 Fundamentals of Combustion	
ME 7310 Computational Fluid Dynamics with Heat Transfer	
ME 5685 Solar Thermal Engineering	
ME 7330 Turbulent Flow	
ME 7340 Turbomachinery Design	

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

156 total semester hours required

Minimum 3.000 GPA required in all graduate courses

Plan of Study

Five 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 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
PHYS 1155 (ND)	3 ME 2340 (WI)	4		
General Elective	4 ME 2341	1		
PHYS 1156 (AD)	1 ME 2355	4		
PHYS 1157	1 ME 2356	1		
ME 2350	4 ME 2380	4		
	MEIE 2000	1		
	17	19	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 EECE 2210	4 ME 3475	4 Co-op	0
	EECE 2211	1 ENGW 3302 (WD)	4	
	ME 3455	4		
	ME 3456	1		
	ME 4508	4		
	ME 4555	4		
	0	18	8	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 ME 4505 (AD)	4 Vacation	0 ME 4550	4
	ME 4506	1	MEIE 4701 (EI, WI, CE)	1
	ME or IE technical elective	4	Math/ Science Elective	4
	ME 4570	4		
	MEIE 3000	1		
	MEIE graduate elective	4		
	0	18	0	9

Year 5

Fall	Hours Spring	Hours
MEIE 4702 (EI, WI, CE)	5 MEIE graduate elective	4
MEIE graduate elective	4 MEIE graduate elective	4
MEIE graduate elective	4 MEIE graduate elective	4
MEIE graduate elective	4 MEIE graduate elective	4
	MEIE 6850	0
	17	16

Total Hours: 156

Five 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 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	Co-op	Vacation	
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	Co-op	ME 3475	4
ME 2340 (WI)	4		ENGW 3302 (WD)	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 EECE 2210	4 Vacation	0 ME 4550	4
ME 3456	1 EECE 2211	1	MEIE 4701 (EI, WI, CE)	1
ME 4505 (AD)	4 ME 4555	4	Math/ Science Elective	4
ME 4506	1 MEIE 3000	1		
ME 4508	4 MIE Technical Elective	4		
ME 4570	4 Graduate Course	4		
	18	18	0	9

Year 5

Fall	Hours	Spring	Hours
MEIE 4702 (EI, WI, CE)	5	Graduate Course	4
Graduate Course	4	Graduate Course	4
Graduate Course	4	Graduate Course	4
Graduate Course	4	Graduate Course	4
		MEIE 6850	0
	17		16

Total Hours: 156

Mechanical Engineering, BS/Energy Systems, MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Mathematics/Science Requirement

Complete 35 semester hours in mathematics and science as indicated below:

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
---------------------------------------------	---------------------------------------------------------------------------------------------------------	---

Math/Science Elective 4

Please complete one of the following

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
CHEM 1214 and CHEM 1215	General Chemistry 2 and Lab 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
MATH 3081	Probability and Statistics	4
MATH 2310	Discrete Mathematics	4
PHYS 2303	Modern Physics	4
PHYS 3601	Classical Dynamics	4
PHYS 3602	Electricity and Magnetism	4

Supplemental Credit

1 semester hour from the following course counts toward the mathematics/science requirement: 1

GE 1502	Cornerstone of Engineering 2	
---------	------------------------------	--

Engineering

Complete 68 semester hours in engineering as indicated below:

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

2 semester hours from the following course counts toward the engineering requirement: 2

GE 1502 Cornerstone of Engineering 2

Professional Development

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 each of the following courses will apply to the professional development area: 2

GE 1501 Cornerstone of Engineering 1

GE 1502 Cornerstone of Engineering 2

Additional NUPATH Courses

Writing

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

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 2 academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

Graduate Courses taken toward the PlusOne program

Graduate Requirements

ACCT 6200 Financial Reporting and Managerial Decision Making 1 3

ACCT 6201 Financial Reporting and Managerial Decision Making 2 1.5

EMGT 6225 Economic Decision Making 4

ENSY 5000 Fundamentals of Energy System Integration 4

FINA 6200 Value Creation through Financial Decision Making 3

ME 6200 Mathematical Methods for Mechanical Engineers 1 4

MEIE 6850 Research Seminar in Mechanical and Industrial Engineering 0

Required Graduate Electives

Complete 16 semester hours from the following 16

ARCH 5210 Environmental Systems and ARCH 5211 and Recitation for ARCH 5210

CHEM 5651	Materials Chemistry of Renewable Energy
CHEM 5652	Fundamental Science of Photovoltaics
CHME 5204	Heterogeneous Catalysis
CHME 5630	Biochemical Engineering
CIVE 5270	Environmental Protection and Management
EECE 5680	Electric Drives
EECE 5682	Power Systems Analysis 1
EECE 5684	Power Electronics
EECE 5686	Electrical Machines
EECE 7239	Special Topics in Power Systems
EECE 7398	Special Topics
EMGT 5220	Engineering Project Management
ENSY 5585	Wind Energy Systems
ENSY 7374	Special Topics in Energy Systems
ENSY 7978	Independent Study
LPSC 7312	Cities, Sustainability, and Climate Change
ME 5645	Environmental Issues in Manufacturing and Product Use
ME 5685	Solar Thermal Engineering
ME 5690	Gas Turbine Combustion
ME 7270	General Thermodynamics
ME 7300	Combustion and Air Pollution
ME 7305	Fundamentals of Combustion
OR 6205	Deterministic Operations Research
PPUA 7238	Climate Change and Urbanization in Developing Countries

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

159.5 total semester hours required

Minimum 3.000 GPA required in all graduate courses

Plan of Study

Five 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	Vacation		Vacation	
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	Co-op	
PHYS 1155 (ND)	3 ME 2340 (WI)	4		
PHYS 1156 (AD)	1 ME 2341	1		
PHYS 1157	1 ME 2355	4		
ME 2350	4 ME 2356	1		
Science/Math Elective	4 ME 2380	4		
	MEIE 2000	1		
	17	19	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	EECE 2210	4 ME 3475	4 Co-op	
	EECE 2211	1 ENGW 3302 (WD)	4	
	ME 3455	4		
	ME 3456	1		
	ME 4508	4		
	ME 4555	4		
	0	18	8	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	ME 4505 (AD)	4 Vacation	MEIE 4701 (EI, WI, CE)	1
	ME 4506	1	ME 4550	4
	MEIE 3000	1	ME 6200	4
	ME 4570	4		
	EMGT 6225	4		
	ACCT 6200	3		
	0	17	0	9

Year 5

Fall	Hours Spring	Hours
MEIE 4702 (EI, WI, CE)	5 MIE Technical elective	4
ENSY 5000	4 Graduate elective	4
ACCT 6201	1.5 Graduate elective	4
FINA 6200	3 Graduate elective	4
Graduate elective	4 MEIE 6850	0

You will need to meet with your academic advisor to determine scheduling of the following required course: General Elective	4
	17.5
	20

Total Hours: 159.5

Five 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 Vacation	Vacation	
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	Co-op	Vacation	
PHYS 1155 (ND)	3			
PHYS 1156 (AD)	1			
PHYS 1157	1			
ME 2350	4			
MEIE 2000	1			
Science/Math Elective	4			
	18	0	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
MATH 2341	4 Co-op	Co-op	ME 3475	4
ME 2340 (WI)	4		ENGW 3302 (WD)	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 EECE 2210	4 Vacation	ME 4550	4
ME 3456	1 EECE 2211	1	MEIE 4701 (EI, WI, CE)	1
ME 4505 (AD)	4 ME 4555	4	ME 6200	4
ME 4506	1 MEIE 3000	1		
ME 4508	4 EMGT 6225	4		
ME 4570	4 ACCT 6200	3		
	18	17	0	9

Year 5

Fall	Hours Spring	Hours
MEIE 4702 (EI, WI, CE)	5 MIE Technical elective	4
ENSY 5000	4 Graduate elective	4
ACCT 6201	1.5 Graduate elective	4
FINA 6200	3 Graduate elective	4
Graduate elective	4 MEIE 6850	0
	You will need to meet with your academic advisor to determine scheduling of the following required course: General Elective	4
	17.5	20

Total Hours: 159.5

Mechanical Engineering, BS/ Engineering Management, MS**Program Requirements**

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Mathematics/Science Requirement

Complete 35 semester hours in mathematics and science as indicated below:

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

Engineering

Complete 68 semester hours in engineering as indicated below:

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:

EMGT, ENGR, IE, ME, or MEIE

Supplemental Credit

3 semester hours from the following course count toward the engineering requirement:

GE 1501 Cornerstone of Engineering 1

2 semester hours from the following course count toward the engineering requirement:

GE 1502 Cornerstone of Engineering 2

Professional Development

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 each of the following courses will apply to the professional development area:

GE 1501 Cornerstone of Engineering 1

GE 1502 Cornerstone of Engineering 2

Additional NUPATH Courses

Writing

A grade of C or higher is required in each course:

ENGW 1111	First-Year Writing	4
ENGW 3302 or ENGW 3315	Advanced Writing in the Technical Professions Interdisciplinary Advanced Writing in the Disciplines	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

Complete two academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

Graduate Courses Taken Toward the PlusOne Program

Minimum 3.000 GPA required in graduate courses

Required Graduate Courses

EMGT 5220	Engineering Project Management	4
EMGT 6225	Economic Decision Making	4
IE 6200	Engineering Probability and Statistics	4
OR 6205	Deterministic Operations Research	4

If comparable undergraduate courses IE 3412 (or MATH 3081) and IE 4515 have been taken with a B+ or higher, IE 6200 and OR 6205, respectively, can be waived and substituted with other graduate courses.

The remaining 16 credits can be taken by one of the following three options:

1. EMGT 7990—Thesis (8 credits) and two graduate electives (total of 8 credits) from the list below.
2. EMGT 7945—Masters Project (4 credits) and three graduate electives (total of 12 credits) from the list below.
3. Four courses (total of 16 credits) from the list below.

Graduate Technical Electives

CSYE 6200	Concepts of Object-Oriented Design
CSYE 6205	Concepts of Object-Oriented Design with C++
CSYE 6210	Component Software Development
CSYE 6220	Enterprise Software Design
CSYE 7230	Software Engineering
CSYE 7270	Building Virtual Environments
CSYE 7280	User Experience Design and Testing
ENSY 5000	Fundamentals of Energy System Integration
EMGT 5300	Engineering/Organizational Psychology
EMGT 6305	Financial Management for Engineers
EMGT 7978	Independent Study
ENTR 6200	Enterprise Growth and Innovation
ENTR 6212	Business Planning for New Ventures
ENTR 6218	Business Model Design and Innovation
ENTR 6219	Financing Ventures from Early Stage to Exit
GE 5100	Product Development for Engineers
IE 5400	Healthcare Systems Modeling and Analysis
IE 5500	Systems Engineering in Public Programs
IE 5617	Lean Concepts and Applications
IE 5620	Mass Customization
IE 5640	Data Mining for Engineering Applications
IE 6300	Manufacturing Methods and Processes
IE 7200	Supply Chain Engineering
IE 7215	Simulation Analysis
IE 7255	Manufacturing Processes
IE 7270	Intelligent Manufacturing

IE 7275	Data Mining in Engineering
IE 7280	Statistical Methods in Engineering
IE 7285	Statistical Quality Control
IE 7290	Reliability Analysis and Risk Assessment
IE 7315	Human Factors Engineering
IE 7615	Neural Networks in Engineering
INFO 6210	Data Management and Database Design
INFO 6215	Business Analysis and Information Engineering
INFO 6245	Planning and Managing Information Systems Development
INFO 7245	Agile Software Development
INFO 7260	Business Process Engineering
INFO 7275	Advanced Database Management Systems
INFO 7285	Organizational Change and IT
INFO 7290	Data Warehousing and Business Intelligence
INFO 7330	Information Systems for Healthcare-Services Delivery
INFO 7365	Enterprise Architecture Planning and Management
INFO 7390	Advances in Data Sciences and Architecture
MGSC 6206	Management of Service and Manufacturing Operations
OR 7230	Probabilistic Operation Research
OR 7235	Inventory Theory
OR 7240	Integer and Nonlinear Optimization
OR 7245	Network Analysis and Advanced Optimization
OR 7250	Multi-Criteria Decision Making
OR 7310	Logistics, Warehousing, and Scheduling
SCHM 6212	Executive Roundtable in Supply Chain Management
SCHM 6214	Sourcing and Procurement
SCHM 6215	Supply Chain Analytics
SCHM 6221	Sustainability and Supply Chain Management
SCHM 6222	Managing Emerging Issues in Supply Chain Management
SCHM 6223	Managing Healthcare Supply Chain Operations
SCHM 6224	Demand Planning and Forecasting
TECE 6200	Innovation and Entrepreneurial Growth
TECE 6222	Emerging and Disruptive Technologies
TECE 6230	Entrepreneurial Marketing and Selling
TECE 6250	Lean Design and Development
TECE 6300	Managing a Technology-Based Business
TECE 6340	The Technical Entrepreneur as Leader
TELE 5310	Fundamentals of Communication Systems
TELE 5330	Data Networking

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

156 total semester hours required

Minimum 3.000 GPA required in all graduate courses

Plan of Study

Five 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	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
PHYS 1155 (ND)	3	EECE 2210	4				
PHYS 1156 (AD)	1	EECE 2211	1				
PHYS 1157	1	ME 2355	4				
ME 2350	4	ME 2356	1				
General elective	4	ME 2380	4				
		MEIE 2000	1				
	17		19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ME 2340 (W)	4	ME 3475	4	Co-op	0
		ME 2341	1	ENGW 3302 (WD)	4		
		ME 3455	4				
		ME 3456	1				
		ME 4508	4				
		ME 4555	4				
	0		18		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		ME 4505 (AD)	4	Vacation	0	ME 4550	4

ME 4506	1	MEIE 4701 (EI, WI, CE)	1
ME 4570	4	Science/ math elective	4
MEIE 3000	1		
IE 6200	4		
Graduate elective	4		
	0	18	0
			9

Year 5

Fall	Hours Spring	Hours
MEIE 4702 (EI, WI, CE)	5 MIE technical elective	4t
EMGT 5220	4 Graduate elective	4
EMGT 6225	4 Graduate elective	4
OR 6205	4 Graduate elective	4
	17	12-16

Total Hours: 152-156

Five 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 Vacation	Vacation	
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	Co-op	Vacation	
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	Co-op	ME 3475	4

ME 2340 (WI)	4	ENGW 3302 (WD)	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 ME 4555	4 Vacation	ME 4550	4
ME 3456	1 EECE 2210	4	MEIE 4701 (EI, WI, CE)	1
ME 4505 (AD)	4 EECE 2211	1	Science/ math elective	4
ME 4506	1 MEIE 3000	1		
ME 4508	4 IE 6200	4		
ME 4570	4 Graduate elective	4		
	18	18	0	9

Year 5

Fall	Hours Spring	Hours
MEIE 4702 (EI, WI, CE)	5 MIE technical elective	4
EMGT 5220	4 Graduate elective	4
EMGT 6225	4 Graduate elective	4
OR 6205	4 Graduate elective	4
	17	16

Total Hours: 156

Biomechanical Engineering, Minor

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

Required Biology

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	
BIOL 1117 and BIOL 1118	Integrated Anatomy and Physiology 1 and Lab for BIOL 1117	

Required Mechanical Engineering

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.

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

Industrial Engineering, Minor

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

Required Courses

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.

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	Human Machine Systems
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

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

Required Courses

ME 2350	Engineering Mechanics and Design	4
ME 2380	Thermodynamics	4

Mechanical Engineering Technical Electives

Complete two of the following: 8

ME 2340	Introduction to Material Science
ME 2355	Mechanics of Materials

ME 3455	Dynamics and Vibrations
ME 3475 or ME 3480	Fluid Mechanics 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

Bouvé College of Health Sciences

Website (<http://www.northeastern.edu/bouve>)

John R. Reynolds, PharmD, RPh, Interim Dean

Debra L. Franko, PhD, Associate Dean for Faculty Affairs

Stephen Cramer, MBA, Associate Dean, Administration and Finance

John Griffith, PhD, Associate Dean for Research

Christine Letzeiser, PhD, RN, Assistant Dean, Enrollment and Student Services

Jeanine K. Mount, PhD, RPh, Associate Dean for Academic Affairs

Anne M. Sullivan, MEd, Assistant Dean for Administrative Affairs

Dean's Office

215 Behrakis Health Sciences Center

617.373.3323

617.373.3030 (fax)

Bouve_College_of_Health_Sciences@northeastern.edu

Undergraduate Office of Student Services

120 Behrakis Health Sciences Center

617.373.3320

617.373.8994 (fax)

bouvestudentservices@northeastern.edu

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 professional practitioners and leaders, enter graduate schools, and work in many areas responsible for the delivery of healthcare.

There are three schools within the Bouvé College of Health Sciences: the School of Nursing, the School of Pharmacy, and the School of Health Professions, which comprises the following majors: health science and physical therapy. The college offers students a healthcare education that features a curriculum of highly relevant and closely integrated basic courses in the physical, biological, behavioral, and social and administrative sciences; on-site involvement in clinical patient care, including introductory and advanced practice experiences in pharmacy and clinical experiences in nursing, physical therapy, and other health professions; integrated experiential education opportunities in the form of the university's signature cooperative education work program; and a commitment to the search for and advancement of new and progressive concepts, ideas, and philosophies of education and professional practice.

Each of the programs offered by the college is accredited by the appropriate professional group. The college is a member of the American Association of Colleges of Nursing, the American Association of Colleges of Pharmacy, and the American Council of Academic Physical Therapy.

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, PPTH, 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	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.
- Pharmacy students must receive grades of C or better in all professional prerequisites, have satisfactorily completed all courses in year one (freshman year) and year two (sophomore year) of the curriculum, and have a minimum GPA of 3.000 at the completion of the spring semester of the sophomore year to progress into the first professional year of the program. Pharmacy students who are admitted as freshmen in the fall of 2016 and thereafter will be required to meet the above criteria and have an overall GPA of 3.000 or higher in professional prerequisites and professional

courses (see earlier chart) at the completion of the spring semester of the sophomore year to progress into the first professional year of the program. In addition, 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. Students must maintain an overall GPA of 3.000 or higher during the graduate phase of the Doctor of Pharmacy program.

- For pharmacy students, failure to earn a satisfactory grade (S) in a co-op will be counted as a professional course failure.
- Students interested in earning the Bachelor of Science in Pharmaceutical Sciences degree must be fully matriculated Northeastern University students at the time of application. See “Changing Majors (p. 29)” for more information.
- 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 or higher, and have completed a minor or its equivalent by the end of the preprofessional phase of the program (summer 1, semester year two) in order to progress into the professional phase of the Doctorate of Physical Therapy 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 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 (summer 1, semester year two). In addition, 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 the decision. Refer to the *Bouvé Undergraduate Student Manual*, which details the Bouvé College of Health Sciences Appeals Process, and the *Northeastern University Student Handbook*, which details the University Undergraduate Student Academic Appeals Procedures.

Communication Sciences and Disorders

Website (<http://www.northeastern.edu/bouve/csd>)

Ennio Mingolla, PhD
Professor and Chair

226 Forsyth Building
617.373.3698
617.373.2239 (fax)

Karen O’Brien, Administrative Coordinator, ka.obrien@northeastern.edu
(ka.obrien@northeastern.edu)

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 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 (<http://catalog.northeastern.edu/graduate/health-sciences/communication-sciences-disorders>). 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>) and AuD (<http://catalog.northeastern.edu/graduate/health-sciences/communication-sciences-disorders/aud>) programs.

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. 435)
- Speech-Language Pathology and Audiology (p. 436)

Communication Sciences and Disorders, Minor

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

Foundation Course

Complete one of the following: 4

SLPA 1101	Introduction to Communication Disorders
SLPA 1555	Communication Disorders in Movies

Communication Sciences and Disorders Core

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

Elective

Complete at least one of the following. Additional courses may be needed to complete a minimum of 15 SH 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	Group Communication
ENTR 2301	Innovation!
HLTH 1510	Introduction to Healthcare Ethics
HLTH 5005	Introduction to Health and Aging
HLTH 5105	Introduction to Early Intervention
HSCI 5300	Patient-Centered Health Informatics
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 SH required in the minor

GPA Requirement

2.000 GPA required in the minor

Speech-Language Pathology and Audiology, Minor

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

Foundation Course

Complete one of the following: 4

SLPA 1101	Introduction to Communication Disorders	
SLPA 1555	Communication Disorders in Movies	

Speech-Language Pathology and Audiology Core

Complete all of the following:

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

Health Sciences

Website (<http://www.northeastern.edu/bouve/health-sciences>)

Carmen Sceppa, MD, PhD

Professor and Chair

316 Robinson Hall

617.373.3666

617.373.2968 (fax)

Anthony DeFabrizio, Administrative Coordinator,
a.defabrizio@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 and in health science.

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.

BS in Health Science/MPH—Master of Public Health

The Department of Health Sciences offers a combined undergraduate BS 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 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

Health Science Minor

The minor in health sciences is designed for undergraduate students from any discipline across the university who wish to expand and apply their understanding in key areas of public health. 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 semester hours in total. Health science faculty consult with students to assist with elective selections relevant to their interests.

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 MS in exercise science upon graduation.

Programs

Bachelor of Science (BS)

- Health Science, BS (p. 437)

Dual Degree

- Health Science, BS/MPH (p. 438)

Minors

- Health Science, Minor (p. 439)
- Exercise Science, Minor (p. 440)

Health 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.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

YEAR 1

PHTH 1260 or PHTH 1261	The American Healthcare System Comparative Healthcare Systems	4
HSCI 1000	College: An Introduction	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
MATH 1241	Calculus 1	4
PSYC 1101	Foundations of Psychology	4
Complete one of the following:		5
CHEM 1101 and CHEM 1102	General Chemistry for Health Sciences and Lab for CHEM 1101	
CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	
Complete one of the following:		5
CHEM 1104 and CHEM 1105	Organic Chemistry for Health Sciences and Lab for CHEM 1104	
CHEM 1214 and CHEM 1215 and CHEM 1216	General Chemistry 2 and Lab for CHEM 1214 and Recitation for CHEM 1214	
ENGW 1111	First-Year Writing (grade of C or higher is required)	4

YEAR 2

PHTH 2350	Community and Public Health	4
Complete one of the following:		4
PHTH 2210 and PHTH 2211	Foundations of Biostatistics and Recitation for PHTH 2210	
MATH 2280	Statistics and Software	
Complete two of the following:		10
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	
CHEM 2311 and CHEM 2312	Organic Chemistry 1 and Lab for CHEM 2311 (Organic Chemistry 1 and Lab for CHEM2311)	
CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145 (Physics for the Life Science 1 and lab for PHYS1145)	
PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147 (Physics for the Life Science 2 and lab for PHYS1147)	
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 2323 and BIOL 2324	and	
Complete one of the following:		4
HSCI 1105	Nutrition	
HSCI 1106	Contemporary Issues in Nutrition	
HSCI 1107	Nutrition Service Learning	
HSCI 2000	Professional Development for Bouvé Co-op	1
YEAR 3 (4-YEAR OPTION) OR YEARS 3 AND 4 (5-YEAR CO-OP OPTION)		
PHTH 2300 or PHTH 2301	Communication Skills for the Health Professions Communication Skills for the Health Professions— Global	4
HLTH 5450	Healthcare Research	4
PHIL 1165	Moral and Social Problems in Healthcare	4
ENGW 3306	Advanced Writing in the Health Professions	4
FINAL YEAR		
PHTH 4511 or NRSG 4611	Healthcare Management Managing and Leading in Healthcare—An International Perspective	4
PHTH 4515	Health Policy: Public Health in Crisis	4
HSCI 4700	Health Science Capstone Introduction	0
PHTH 4120	Global Perspectives on Discrimination and Health	4
PHTH 4540	Health Education and Program Planning	4
Complete one of the following:		4
HSCI 4710	Health Science Capstone	

HSCI 4720	Health Science Capstone—Service
HSCI 4730	Health Science Capstone—Research

Electives

Complete ten general electives. 40

It is strongly recommended that preclinical students take the following course as one of their electives:

HLTH 1200 and HLTH 1201	Basic Skills for the Healthcare Professional and Lab for HLTH 1200
----------------------------	--------------------------------------------------------------------------

Health Science Major Grade Requirement

A grade of C or higher is required in all health science courses (HLTH, HSCI, and PPTH subject areas).

Program Requirement

135 total semester hours required

Plan of Study

Five years, two co-ops

Year 1				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
PSYC 1101	4 BIOL 1113	4 Vacation	0 Vacation	0
HSCI 1000	1 BIOL 1114	1		
BIOL 1111	4 CHEM 1214	4		
BIOL 1112	1 CHEM 1215	1		
MATH 1241	4 CHEM 1216	0		
CHEM 1211	4 ENGW 1111	4		
CHEM 1212	1 PPTH 1260	4		
CHEM 1213	0			
	19	18	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
PPTH 2350	4 HSCI 1105	4 Vacation	0 Co-op	0
BIOL 1117 or CHEM 2311	4 Elective	4		
BIOL 1118 or CHEM 2312	1 BIOL 1119 or CHEM 2313	4		
MATH 2280	4 BIOL 1120 or / CHEM 2314/ PHYS 1148/ BIOL 2302/23	1		
Elective	4 HLTH 1200 (or elective)	2		
HSCI 2000	1 HLTH 1201 (or elective)	1		
	18	16	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 PPTH 2300	4 Vacation	0 Vacation	0
	ENGW 3306	4		
	Elective	4		
	Elective	4		
	0	16	0	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
PHIL 1165	4 Co-op	0 Co-op	0 Vacation	0
HLTH 5450	4			
Elective	4			
Elective	4			
	16	0	0	0

Year 5		
Fall	Hours Spring	Hours
PPTH 5120	3 HSCI 4720 or 4730	4
PPTH 5540	4 PPTH 4515	4
Elective	4 PPTH 4511	4
Elective	4 Elective	4
HSCI 4700	0	
	15	16

Total Hours: 134

Health Science, BS/MPH

BS in Health Science/MPH—Master of Public Health

The Department of Health Sciences offers a combined undergraduate BS 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 Master's (BS/MPH) program 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 into the PlusOne program as part of their undergraduate acceptance automatically matriculate into the program if they maintain at least a 3.500 cumulative GPA, take a health-related co-op, and officially commit in the spring semester of their junior year. No additional application is required through the graduate school.

Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

YEAR 1

PHTH 1260 or PHTH 1261	The American Healthcare System Comparative Healthcare Systems	4
HSCI 1000	College: An Introduction	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
MATH 1241	Calculus 1	4
PSYC 1101	Foundations of Psychology	4
Complete one of the following:		5

CHEM 1101 General Chemistry for Health Sciences
and CHEM 1102 and Lab for CHEM 1101

CHEM 1211 General Chemistry 1
and CHEM 1212 and Lab for CHEM 1211

Complete one of the following: 5

CHEM 1104 Organic Chemistry for Health Sciences
and CHEM 1105 and Lab for CHEM 1104

CHEM 1214 General Chemistry 2
and CHEM 1215 and Lab for CHEM 1214

ENGW 1111 First-Year Writing ((grade of C or higher
is required)) 4

YEAR 2

PHTH 2350	Community and Public Health	4
Complete one of the following:		4

PHTH 2210 Foundations of Biostatistics
and PHTH 2211 and Recitation for PHTH 2210

MATH 2280 Statistics and Software

Complete two of the following: 10

BIOL 1117 Integrated Anatomy and Physiology 1
and BIOL 1118 and Lab for BIOL 1117

BIOL 1119 Integrated Anatomy and Physiology 2
and BIOL 1120 and Lab for BIOL 1119

CHEM 2311 Organic Chemistry 1
and CHEM 2312 and Lab for CHEM 2311

CHEM 2313 Organic Chemistry 2
and CHEM 2314 and Lab for CHEM 2313

PHYS 1145 Physics for Life Sciences 1
and PHYS 1146 and Lab for PHYS 1145

PHYS 1147 Physics for Life Sciences 2
and PHYS 1148 and Lab for PHYS 1147

BIOL 2301 Genetics and Molecular Biology
and BIOL 2302 and Lab for BIOL 2301

BIOL 2321 Microbiology
and BIOL 2322 and Lab for BIOL 2321

BIOL 2323 and
and BIOL 2324

Select one of the following: 4

HSCI 1105 Nutrition

HSCI 1106	Contemporary Issues in Nutrition	
HSCI 1107	Nutrition Service Learning	
HSCI 2000	Professional Development for Bouvé Co-op	1

YEAR 3 (4-YEAR OPTION) OR YEARS 3 AND 4 (5-YEAR CO-OP OPTION)

PHTH 2300 or PHTH 2301	Communication Skills for the Health Professions Communication Skills for the Health Professions— Global	4
HLTH 5450	Healthcare Research	4
PHIL 1165	Moral and Social Problems in Healthcare	4
ENGW 3306	Advanced Writing in the Health Professions	4

FINAL YEAR

PHTH 5212	Public Health Administration and Policy	3
PHTH 5540	Health Education and Program Planning	4
HSCI 4700	Health Science Capstone Introduction	0
Complete one of the following:		4

HSCI 4710 Health Science Capstone

HSCI 4720 Health Science Capstone—Service

HSCI 4730 Health Science Capstone—Research

PHTH 6204 Society, Behavior, and Health 3

PHTH 5120 Race, Ethnicity, and Health in the United
States 3

PHTH 5212 Public Health Administration and Policy 3

PHTH 6200 Principles and History of Urban Health 3

Complete one of the following: 3 or 4

PHTH 5202 Epidemiology

PHTH 5210 Biostatistics in Public Health

PHTH 5214 Environmental Health

PHTH 6208 Urban Community Health Assessment

Electives

Complete eight general electives. 32

It is strongly recommended that preclinical students take the
following course as one of their electives:

HLTH 1200 Basic Skills for the Healthcare
and HLTH 1201 Professional
and Lab for HLTH 1200

Health Science Major Grade Requirement

A grade of C or higher is required in all health science courses (HLTH,
HSCI, and PHTH subject areas).

Program Requirement

135 total semester hours required

Minimum 3.000 GPA required in all graduate courses

Health Science, Minor

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

Required Courses

PHTH 1260	The American Healthcare System	4
PHTH 2350	Community and Public Health	4

Elective Courses

Complete three of the following: 9-12

EXSC 1120	Introduction to Exercise, Fitness, and Health	
HSCI 1106	Contemporary Issues in Nutrition	
HSCI 5230	Clinical Nutrition Applications in Health and Disease	
PHTH 1120	Society and Health	
PHTH 2300	Communication Skills for the Health Professions	
HLTH 5450	Healthcare Research	
HLTH 5280	The (in)Visibility of (dis)Ability in Society	
PHTH 4511	Healthcare Management	
HSCI 5300	Patient-Centered Health Informatics	
PHTH 4515	Health Policy: Public Health in Crisis	
PHTH 5120	Race, Ethnicity, and Health in the United States	
PHTH 5202	Epidemiology	
PHTH 5228	Advances in Measuring Behavior	
PHTH 5230	Global Health	
PHTH 5232	Evaluating Healthcare Quality	
PHTH 5234	Economic Perspectives on Health Policy	
PHTH 5240	Evaluating Scientific Evidence	
PHTH 5280	Food, Food Policy, and Health	
PHTH 5440	Community-Based Participatory Research: Environmental Health	

GPA Requirement

2.000 GPA required in the minor

Exercise Science, Minor

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

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):

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

Interdisciplinary**Programs****Minor**

Early Intervention, Minor (p. 440)

Early Intervention, Minor

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

Required Courses

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>)

Maura Daly Iversen, PT, DPT, SD, MPH, FNAP, FAPTA
Professor and Chair

301 Robinson Hall
617.373.3908
617.373.3161 (fax)
physicaltherapy@northeastern.edu

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 experiential learning (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 thirty-six 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 twelve Department of Physical Therapy, Movement, and Rehabilitation Science's labs and centers (e.g., Neuromotor Systems Lab, Lab for Locomotion Research, Cancer Survivorship Center, 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, 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 Strength and Conditioning 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.

Bachelor of Science in Rehabilitation Studies

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. 29)" for more information.

Programs

Bachelor of Science

- Rehabilitation Studies (p. 442)

Doctor of Physical Therapy, DPT

- Physical Therapy (p. 443)

Rehabilitation Studies, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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.

YEAR 1

PT 1000	College: An Introduction	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 (a grade of C or higher is required)	4
Complete two Open Electives		8

YEAR 2

PT 2000	Professional Development Co-op	1
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
PT 5101 and PT 5102	Foundations of Physical Therapy and Lab for PT 5101	4
ENGW 3306	Advanced Writing in the Health Professions (a grade of C or higher required)	4
Complete three Open Electives		12

Cooperative Education:

COOP 3945	Co-op Work Experience	0
-----------	-----------------------	---

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

Complete one Open Elective 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 3404	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 4:	4	PT 5134	1
PT 5160	3	PT 5145	2
PT 5161	1	PT 513E	4
		PT 5139	1
<hr/>			
0	17		15

Year 4

Fall	Hours	Spring	Hours
PT 5227	3	Elective	4
PT 515C	4	Elective	4
PT 5151	1		
PHSC 4:	4		
Elective	4		
<hr/>		<hr/>	
	16		8

Total Hours: 136

Physical Therapy, DPT

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

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.

YEAR 1

PT 1000	College: An Introduction	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
Complete two Open Electives		8

YEAR 2

PT 2000	Professional Development Co-op	1
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
PT 5101 and PT 5102	Foundations of Physical Therapy and Lab for PT 5101	4
ENGW 3306	Advanced Writing in the Health Professions (a grade of C or higher required)	4

Complete three Open Electives 12

Progression Requirement for the Professional Phase:

A 3.000 GPA and 3.000 science pre-requisite GPA is required at the end of Summer 1 of second year to progress into professional phase of the program..

Minor Requirement:

Students must declare and successfully complete a minor or minor equivalent as part of their program of study.

YEAR 3

COOP 3945	Co-op Work Experience	0
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 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 5500	Pharmacology for Physical Therapy	4
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
COOP 3945	Co-op Work Experience	0
Complete one Open Elective		4

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 Summer, complete one course in the following range:
PT 6231 to PT 6237

YEAR 6		
PT 6442	Clinical Education 2	6
PT 6448	Clinical Education 3	9
PT 6251	Diagnostic Imaging	3

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 100C	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
MATH 2280	4	BIOL 1119	4	ENGW 3306	4	Co-op	0
PHYS 1146	1	PHYS 1147	4	Minor course or Elective	4		
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 5145	2
		PT 5132	1	PT 513E	4
		HLTH 5450	4	PT 5139	1
		PT 516C	3	PT 514C	4
		PT 5161	1	PT 5141	0
		EXSC 4E	4	PT 513E	3
				PT 5134	1
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 551E	1
PT 5500	4					PT 5540	2
PT 550E	4					PT 624E	3
PT 5504	1					PT 6244	0
Minor course or elective	4						
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 600C	2	PT 6222	1			PT 625C	2
PT 5209	4	PT 6223	4			PT 6215	3
PT 521C	1	PT 6224	1			PT 621E	1
PT 5505	4	PT 5226	2				
PT 550E	1	PT 522E	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>)

Nancy P. Hanrahan, PhD, RN, CS, FAAN

Professor and Dean

Ann Polcari, PhD, PMHCNS-BC

Associate Clinical Professor and Assistant Dean of Undergraduate Programs

Janet S. Rico, PhD, MBA, FNP

Associate Clinical Professor and Assistant Dean for Graduate Education

Office of the Dean

102 Robinson Hall

617.373.3649

617.373.8675 (fax)

Undergraduate Program Office

102 Robinson Hall

617.373.6083

Lolita Hampton-Frisby, Administrative Coordinator,

l.hamptonfrisby@northeastern.edu

The School of Nursing offers a Bachelor of Science and an Accelerated Bachelor of Science (ABSN) in nursing programs 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.

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 been designated as a National League for Nursing Center of Excellence in Nursing Education for its commitment to creating environments that enhance student learning and professional development. 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.

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.

Accelerated BSN for Second-Degree Students

The Accelerated Bachelor of Science in Nursing (ABSN) hybrid program, which comprises sixteen 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.

Programs

Bachelor of Science in Nursing (BSN)

- Nursing (p. 446)
- Accelerated Program for Second-Degree Students (p. 448)

Nursing, BSN

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

CORE TERM 1

NRSG 1000	College: An Introduction	1
HSCI 1105	Nutrition	4
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
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 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

CLINICAL TERM 2

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

CLINICAL TERM 3

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

CLINICAL TERM 4

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

CLINICAL TERM 5

NRSRG 4995	Comprehensive Nursing Practicum	5
NRSRG 4610	Managing and Leading in Healthcare	4
PHIL 1165	Moral and Social Problems in Healthcare	4
HLTH 5450	Healthcare Research	4

Nursing Breadth Courses

SOCL 1101	Introduction to Sociology	4
PSYC 3404	Developmental Psychology	4
NRSRG 5120	Statistics for Health Science	3
ENGW 3306	Advanced Writing in the Health Professions (a grade of C or higher required)	4

Nursing Electives

Complete three courses outside nursing or from the following list: 12

NRSRG 1205	Wellness
NRSRG 1206	Wellness Abroad
NRSRG 4992	Directed Study
NRSRG 4993	Independent Study
NRSRG 5000	Advanced Perspectives in Wellness
NRSRG 4970	Junior/Senior Honors Project 1
or NRSRG 4971	Junior/Senior Honors Project 2

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
NRSRG 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
NRSRG 2220	4 NRSRG 3323	1 PSYC 3404	4 Co-op	0
NRSRG 2221	1 NRSRG 3324	1 NRSRG 3400	3	
PHSC 4340	4 NRSRG 3320	4 NRSRG 3401	2	
NRSRG 2210	3 NRSRG 3321	2		
NRSRG 2312	4 NRSRG 3302	3		
	NRSRG 3303	2		
	SOCL 1101	4		
	NRSRG 2000	1		
	16	18	9	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 NRSRG 4604	3 Vacation	0 Co-op	0
	NRSRG 4605	2		
	NRSRG 3420	4		
	NRSRG 3421	2		
	NRSRG 5120	3		
	0	14	0	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 NRSRG 4502	4 ENGW 3306	4 Co-op	0
	NRSRG 4503	2 Elective	4	
	Elective	4		
	HLTH 5450	4		
	0	14	8	0

Year 5		
Fall	Hours Spring	Hours
Co-op	NRSRG 4995	5
	NRSRG 4610	4
	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			
NRSRG 1000	1			
	19	18	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
NRSRG 2220	4 Co-op	0 Co-op	0 PSYC 3404	4
NRSRG 2221	1		NRSRG 3302	3
PHSC 4340	4		NRSRG 3303	2
NRSRG 2210	3			
NRSRG 2312	4			
NRSRG 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 NRSRG 4604	3
NRSRG 3320	4		NRSRG 4605	2
NRSRG 3321	2		Elective	4
NRSRG 3400	3			
NRSRG 3401	2			

NRS 3323	1			
NRS 3324	1			
	17	0	0	9
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
NRS 3420	4 Co-op	0 Co-op	0 Vacation	0
NRS 3421	2			
NRS 5120	3			
ENGW 3306	4			
	13	0	0	0
Year 5				
Fall	Hours Spring	Hours		
NRS 4502	4 NRS 4610	4		
NRS 4503	2 NRS 4995	5		
HLTH 5450	4 PHIL 1165	4		
Elective	4 Elective	4		
	14	17		

Total Hours: 133

Nursing (BSN), Accelerated Program for Second-Degree Students

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

SEMESTER 1

NRS 2210	Influences on Health and Illness: A Nursing Perspective	3
NRS 2220 and NRS 2221	Nursing Interventions, Assessment, and Community Care and Lab for NRS 2220	5
NRS 2312	Pathophysiology	4
NRS 3302 and NRS 3303	Nursing with Women and Families and Clinical for NRS 3302	5
HLTH 5450	Healthcare Research	4

SEMESTER 2

PHSC 4340	Pharmacology for the Health Professions	4
NRS 3320 and NRS 3321	Nursing Care of Adults 1 and Clinical for NRS 3320	6
NRS 3400 and NRS 3401	Nursing and the Promotion of Mental Health and Clinical for NRS 3400	5

NRS 3323 and NRS 3324	Intermediate Interventions and Assessment and Lab for NRS 3323	2
-----------------------	----------------------------------------------------------------	---

SEMESTER 3

NRS 3420 and NRS 3421	Nursing Care of Adults 2 and Clinical for NRS 3420	6
NRS 4502 and NRS 4503	Nursing Care of the Child and Clinical for NRS 4502	6
NRS 4610	Managing and Leading in Healthcare	4

SEMESTER 4

NRS 4995	Comprehensive Nursing Practicum	5
NRS 4604 and NRS 4605	Public Health Community Nursing and Clinical for NRS 4604	5
NRS 6306	Health Informatics	3

Program Requirement

67 total semester hours required

School of Pharmacy

Website (<http://www.northeastern.edu/bouve/pharmacy>)

David P. Zgarrick, PhD, FAPhA, RPh
Professor and Acting Dean

Jenny A. Van Amburgh, PharmD, RPh, FAPhA, FNAP, BCACP, CDE
Clinical Professor and Assistant Dean for Academic Affairs

Diomedes Logothesis, PhD
Professor and Chair, Department of Pharmaceutical Sciences

Michael J. Gonyeau, PharmD, RPh, MEd, FCCP, FNAP, BCPS
Clinical Professor and Interim Chair, Department of Pharmacy and Health Systems Sciences

140 The Fenway
617.373.3380
617.373.7655 (fax)
schoolofpharmacy@northeastern.edu

The School of Pharmacy (SOP) is dedicated to excellence in pharmacy-related education, research, and service, including the provision of patient care. We seek to 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) offers a unique program that fully integrates campus-based learning with experiential learning, including the university's signature cooperative education (co-op) program, to provide students with the skills and abilities necessary to succeed in the pharmacy profession. Our students promote and ensure the safe and effective use of drugs and provide medication therapy management services. In addition to preparing and dispensing prescribed medications, our students provide information to patients about medications and their uses; advise physicians, other prescribers, and other 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 Enforcement Administration. Graduates may also find employment in drug development, marketing and research within the pharmaceutical industry, colleges of pharmacy, and professional association management. In addition, many of our graduates go on to pharmacy practice residencies, 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 SOP Academic Affairs Committee.

The pharmacy curriculum includes introductory (cooperative education) and advanced pharmacy practice experiences (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.

Introductory pharmacy practice experiences (IPPEs) are competitive placements that are based on job availability in a geographic region. The placements are facilitated by SOP cooperative education coordinators. Students are required to complete one IPPE in a community setting and one IPPE in an institutional/hospital practice setting.

APPE placements are provided based on site/preceptor availability and the final approval of the SOP 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 (PharmD), a student must successfully complete all courses in the curriculum including the introductory (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) (info@acpe-accredit.org), subscribes to the standards established by ACPE and the American Association of Colleges of Pharmacy.

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 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. 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 1,740 internship hours, all of which are satisfied through the introductory (co-op) and APPEs.

The SOP offers a four-year degree program leading to the Bachelor of Science in Pharmaceutical Sciences (BSPS). The program is designed to prepare students for careers in entry-level positions in the pharmaceutical, biomedical, biotechnology, drug discovery, and development industries or to prepare graduates for admission into advanced degree (MS, PhD) programs in the pharmaceutical sciences. The BSPS does not qualify or prepare graduates to apply for licensure for the practice of pharmacy. This program will be open primarily to students already enrolled at Northeastern University who choose a future career that is grounded in the pharmaceutical sciences. Courses for the BSPS curriculum parallel the PharmD curriculum so credits are readily transferable. The BSPS degree requires a minimum of four years of study and provides for at least one co-op period. The total number of semester hours (134–143) meets the university minimum of 128 semester hours for a BS degree.

Requirements for the Doctor of Pharmacy Advanced Pharmacy Practice Experiences

Requirements for eligibility to enter the PharmD APPEs include:

1. Successful completion of all required and elective didactic course work in the pharmacy curriculum and conferral of the Bachelor of Science in Pharmacy Studies degree.
2. Successful completion of the APPE preparatory courses (Advanced Pharmacy Practice Experience Preparatory Seminar 1 (PHMD 5438) and Advanced Pharmacy Practice Experience Preparatory Seminar 2 (PHMD 5439)).
3. Evidence of health clearance from University Health and Counseling Services before placements at any APPE site.
4. Satisfactory completion of any additional site-specific requirements including, but not limited to, criminal record information (CORI) and verification of immunization status. All fees associated with these requirements are the responsibility of the student.
5. Adherence to the SOP's code of professional conduct and university's code of conduct policies while off-campus.
6. Successful completion of six, six-week APPEs: four required APPEs (i.e., ambulatory care, community, internal/general medicine, and one health system experience); and two electives that may be patient-care or non-patient-care focused.
7. Maintenance of sufficient knowledge of 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.
8. Maintenance of an APPE portfolio throughout the APPE year and completion of all portfolio submission requirements within specified deadlines.
9. Attendance at scheduled on-campus APPE meetings during the APPE year:
 - a. Fall semester: midpoint APPE meeting

- b. Spring semester: exit meeting

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 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 and ethical 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. 450)
- Pharmacy Studies (p. 451)

Doctor of Pharmacy (PharmD)

- Pharmacy (p. 453)

Pharmaceutical Sciences, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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.

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
ENGW 1111	First-Year Writing (a grade of C or higher required)	4
PHMD 1000	College: An Introduction	1

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
PHMD 1001	Introduction to the Profession of Pharmacy	1

Open Elective		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
PHSC 2301 and PHSC 2302	Human Physiology 1 and Human Anatomy Lab	4
Open Elective		4

SEMESTER 4

PHMD 1201 and PHMD 1202	Introduction to Pharmacy Practice and Lab for PHMD 1201	3
CHEM 2313 and CHEM 2314 and CHEM 2320	Organic Chemistry 2 and Lab for CHEM 2313 and Recitation for CHEM 2313	5
PHSC 2303 and PHSC 2304	Human Physiology 2 and Human Physiology Lab	4
Open Elective		4

SEMESTER 5

PHSC 2320	Biochemistry	4
PHSC 4501	Pharmacology/Medicinal Chemistry 1	5
PHSC 3411	Pharmaceutics 1	4

ENGW 3306	Advanced Writing in the Health Professions (a grade of C or higher required)	4
-----------	------------------------------------------------------------------------------	---

SEMESTER 6

PHSC 6212	Research Skills and Ethics	1
PHSC 4502	Pharmacology/Medicinal Chemistry 2	5
PHSC 3419	Pharmaceutics Laboratory	1
PHSC 3412	Pharmaceutics 2	4

Open Elective		4
---------------	--	---

SEMESTER 7

Complete one of the following: 4

MATH 2280	Statistics and Software	
MATH 2285	Introduction to Multisample Statistics	
ECON 2350	Statistics	
HLTH 5450	Healthcare Research	
PHMD 3450	Research Methodology and Biostatistics	

Complete 6-8 semester hours of elective credit. 6-8

Toxicology Requirement 3

Complete at least 3 SH in the area of toxicology taken after successful completion of PHSC 4502. Contact your advisor for course options.

SEMESTER 8

PHSC 3430	Pharmacokinetics and Biopharmaceutics	3
-----------	---------------------------------------	---

PHSC 2330	Immunology	3
-----------	------------	---

PHSC 4850	Capstone for BS in Pharmaceutical Sciences	4
-----------	--------------------------------------------	---

Complete one 4 semester hour elective course. 4

Program Requirement

133 total semester hours required

Pharmacy Studies, 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. 38).

NUPATH Requirements

All undergraduate students are required to complete the NUPATH Requirements (p. 34).

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 Grade Requirement

A grade of C or higher is required in all PHMD and PHSC courses.

SEMESTER 1

PHMD 1000	College: An Introduction	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
-----------	---------------------------	---

ENGW 1111	First-Year Writing (a grade of C or higher required)	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
-----------	------------	---

PHMD 1001	Introduction to the Profession of Pharmacy	1
-----------	--------------------------------------------	---

Open Elective		0-4
---------------	--	-----

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
-------------------------	-------------------------------------------	---

PHSC 2301 and PHSC 2302	Human Physiology 1 and Human Anatomy Lab	4
-------------------------	------------------------------------------	---

Open Elective		0-4
---------------	--	-----

SEMESTER 4

ENGW 3306	Advanced Writing in the Health Professions	4
-----------	--------------------------------------------	---

PHMD 1201 and PHMD 1202	Introduction to Pharmacy Practice and Lab for PHMD 1201	3
-------------------------	---------------------------------------------------------	---

CHEM 2313 and CHEM 2314	Organic Chemistry 2 and Lab for CHEM 2313	5
-------------------------	-------------------------------------------	---

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
SEMESTER 9		
PHMD 5223	Evidence-Based Medicine	3
PHMD 5330	Jurisprudence	3
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
PHMD 5438	Advanced Pharmacy Practice Experience Preparatory Seminar 1	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 5439	Advanced Pharmacy Practice Experience Preparatory Seminar 2	0.5
PHMD 5270	Economic Evaluation of Pharmaceuticals and Pharmacy Practice	2

Professional Elective and Capstone Requirements

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 5005	Introduction to Health and Aging
HLTH 5135	Developing an Interdisciplinary Approach to Health Management for Older Adults
HLTH 5280	The (in)Visibility of (dis)Ability in Society
HSCI 4510	Healthcare Ethics
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
PHMD 4993	Independent Study
PHMD 5570	Technology in Healthcare and Pharmacy Practice
PHSC 4970	Junior/Senior Honors Project 1
PHSC 4971	Junior/Senior Honors Project 2
PHMD 4890	Contemporary Issues in Geriatric Pharmacy
PHSC 4991	Research
PHSC 4992	Directed Study
PHSC 4993	Independent Study
PHSC 5100	Concepts in Pharmaceutical Science
PHSC 5200	Advanced Immunology and Immunological Therapies
PHSC 6210	Drug Design, Evaluation, and Development
PHSC 6212	Research Skills and Ethics
PHSC 6218	Biomedical Chemical Analysis
PHSC 6222	The Chemistry and Biology of Drugs of Abuse
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	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 5240	Evaluating Scientific Evidence
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 6228	Public Health Nutrition
PHTH 6320	Qualitative Methods in Health and Illness

PSYC 4514	Clinical Neuroscience	
NRSRG 1205	Wellness	
NRSRG 6210	Holistic Healing and Integrative Health	
NRSRG 6282	Clinical Psychopharmacology	
NRSRG 6287	Child and Adolescent Psychopharmacology	
NRSRG 6300	Healthcare Finance and Marketing	
NRSRG 6302	Health Policy and Law	
NRSRG 6306	Health Informatics	
NRSRG 6307	Operational Informatics in Healthcare Organizations	
NRSRG 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 4600		4
or PHSC 4600	Pharmacy Capstone	

Program Requirement

166 total semester hours required

Pharmacy, PharmD

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Grade Requirement

A grade of C or higher is required in all PHMD and PHSC courses.

SEMESTER 1

PHMD 1000	College: An Introduction	1
-----------	--------------------------	---

BIOL 1111	General Biology 1	5
and BIOL 1112	and Lab for BIOL 1111	
CHEM 1211	General Chemistry 1	5
and CHEM 1212	and Lab for CHEM 1211	
ENGW 1111	First-Year Writing (a grade of C or higher required)	4
PSYC 1101	Foundations of Psychology	4

SEMESTER 2

BIOL 1113	General Biology 2	5
and BIOL 1114	and Lab for BIOL 1113	
CHEM 1214	General Chemistry 2	5
and CHEM 1215	and Lab for CHEM 1214	
MATH 1241	Calculus 1	4
PHMD 1001	Introduction to the Profession of Pharmacy	1

NU Path Interpreting Culture or Open Elective

SEMESTER 3

PHYS 1149	Physics for Pharmacy	5
and PHYS 1150	and Lab for PHYS 1149	
CHEM 2311	Organic Chemistry 1	5
and CHEM 2312	and Lab for CHEM 2311	
PHSC 2301	Human Physiology 1	4
and PHSC 2302	and Human Anatomy Lab	

NU Path Interpreting Culture or Open Elective

SEMESTER 4

ENGW 3306	Advanced Writing in the Health Professions	4
PHMD 1201	Introduction to Pharmacy Practice	3
and PHMD 1202	and Lab for PHMD 1201	
CHEM 2313	Organic Chemistry 2	5
and CHEM 2314	and Lab for CHEM 2313	
PHSC 2303	Human Physiology 2	4
and PHSC 2304	and Human Physiology Lab	

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	Educational and Behavioral Interventions in Pharmacy Practice	2.5
and PHMD 2311	and Lab for PHMD 2310	
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	HSCI 5230	Clinical Nutrition Applications in Health and Disease
SEMESTER 8			PHMD 3600	Leadership and Advocacy in Health Professions
PHMD 5330	Jurisprudence	3	PHMD 4350	Exploring Academic Careers
PHSC 5360	Anti-Infectives	4	PHMD 4581	Cancer Chemotherapy
PHMD 4621	Comprehensive Disease Management 2	6	PHMD 4585	Research Methods in Health Systems
PHMD 4622	Comprehensive Disease Management 2 Seminar	1	PHMD 4880	Special Topics
PHMD 4623	Comprehensive Disease Management 2 Skills Lab	0.5	PHMD 4890	Contemporary Issues in Geriatric Pharmacy
SEMESTER 9			PHMD 4970	Junior/Senior Honors Project 1
PHMD 5223	Evidence-Based Medicine	3	PHMD 4971	Junior/Senior Honors Project 2
PHMD 4631	Comprehensive Disease Management 3	6	PHMD 4991	Research
PHMD 4632	Comprehensive Disease Management 3 Seminar	1	PHMD 4992	Directed Study
PHMD 4633	Comprehensive Disease Management 3 Skills Lab	0.5	PHMD 4993	Independent Study
PHMD 5438	Advanced Pharmacy Practice Experience Preparatory Seminar 1	0.5	PHMD 5570	Technology in Healthcare and Pharmacy Practice
SEMESTER 10			PHSC 4970	Junior/Senior Honors Project 1
PHMD 4641	Comprehensive Disease Management 4	6	PHSC 4971	Junior/Senior Honors Project 2
PHMD 4642	Comprehensive Disease Management 4 Seminar	1	PHSC 4991	Research
PHMD 4643	Comprehensive Disease Management 4 Skills Lab	0.5	PHSC 4992	Directed Study
PHMD 5439	Advanced Pharmacy Practice Experience Preparatory Seminar 2	0.5	PHSC 4993	Independent Study
PHMD 5270	Economic Evaluation of Pharmaceuticals and Pharmacy Practice	2	PHSC 5100	Concepts in Pharmaceutical Science
SEMESTER 11			PHSC 5200	Advanced Immunology and Immunological Therapies
A minimum 3.000 GPA is required for Semester 11.			PHSC 6210	Drug Design, Evaluation, and Development
<i>Advanced Practice Experience</i>			PHSC 6212	Research Skills and Ethics
Select courses in the following range to complete six, six-week rotations:			PHSC 6218	Biomedical Chemical Analysis
PHMD 6440 to PHMD 6474			PHSC 6222	The Chemistry and Biology of Drugs of Abuse
Professional Elective and Capstone Requirements			PHSC 6224	Behavioral Pharmacology and Drug Discovery
Open Electives			PHSC 6226	Imaging in Medicine and Drug Discovery
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.			PMCL 6262	Receptor Pharmacology
Professional Elective			PMST 6250	Advanced Physical Pharmacy
Complete at least two semester hours during the professional phase of the program (after semester 4) from the following:			PMST 6252	Pharmacokinetics and Drug Metabolism
HLTH 1010	From the Community to the Intensive Care Unit: Approaching Interdisciplinary Research in the Elderly	2	PMST 6254	Advanced Drug Delivery System
HLTH 2302	Alternative Medicine		PHTH 5120	Race, Ethnicity, and Health in the United States
HLTH 5005	Introduction to Health and Aging		PHTH 5202	Epidemiology
HLTH 5135	Developing an Interdisciplinary Approach to Health Management for Older Adults		PHTH 5210	Biostatistics in Public Health
HLTH 5280	The (in)Visibility of (dis)Ability in Society		PHTH 5212	Public Health Administration and Policy
HSCI 4510	Healthcare Ethics		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 5240	Evaluating Scientific Evidence

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 6228	Public Health Nutrition
PHTH 6320	Qualitative Methods in Health and Illness
PSYC 4514	Clinical Neuroscience
NRSRG 1205	Wellness
NRSRG 6210	Holistic Healing and Integrative Health
NRSRG 6282	Clinical Psychopharmacology
NRSRG 6287	Child and Adolescent Psychopharmacology
NRSRG 6300	Healthcare Finance and Marketing
NRSRG 6302	Health Policy and Law
NRSRG 6306	Health Informatics
NRSRG 6307	Operational Informatics in Healthcare Organizations
NRSRG 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 4600	4
or PHSC 4600	Pharmacy Capstone

Program Requirement

200 total semester hours required

Plan of Study

Six Years, Three Co-ops

Year 1							
Fall	Hours	Spring	Hours	Summer Hours	Hours	Summer Hours	
				1	2		
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 Hours	Hours
				Full Semester	
CHEM 2311	4	CHEM 2313	4	Co-op	0
CHEM 2	1	CHEM 2	1		
CHEM 2319	0	CHEM 2320	0		
PHSC 2	3	PHSC 2	3		
PHSC 2302	1	PHSC 2304	1		
PHYS 1	4	Elective	4		
PHYS 1150	1	PHMD 1201	2.5		
Elective	4	PHMD 1	0.5		
	18		16		0

Year 3					
Fall	Hours	Spring	Hours	Summer Hours	Hours
				Full Semester	
PHSC 2320	4	Co-op	0	PHMD 2310	2
ENGW 3	4			PHMD 2	0.5
PHSC 4501	5			PHMD 2350	3
PHSC 3	4			PHSC 3	4
				PHSC 3419	1
				PHSC 4	5
	17		0		15.5

Year 4					
Fall	Hours	Spring	Hours	Summer Hours	Hours
				Full Semester	
Co-op	0	PHSC 3430	3	PHMD 6223	3
		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	4	PHSC 5	4
				Elective	4
	0		20		21.5

Year 5					
Fall	Hours	Spring	Hours	Summer Hours	Hours
				Full Semester	
PHMD 4631	6	PHMD 4641	6	PHMD advanced practice experience	6
PHMD 4	1	PHMD 4	1	PHMD advanced practice experier	6
PHMD 5250	3	PHMD 4643	0.5		
PHMD 4	0.5	PHMD 5	2		
PHMD 5438	0.5	PHMD 5439	0.5		
Elective course	4	Elective course	4		
Elective course	4	Elective course	4		
	19		18		12

Year 6

Fall	Hours	Spring	Hours
PHMD advanced practice experience	6	PHMD advanced practice experience	6
PHMD advanc practice experier	6	PHMD advanc practice experier	6
	12		12

Total Hours: 219

College of Science

Website (<http://www.northeastern.edu/cos>)

Kenneth W. Henderson, PhD, Dean

George O. Alverson, PhD, Associate Dean, Academic Affairs

David E. Budil, PhD, Associate Dean, Research

Frederick C. Davis, PhD, Associate Dean, Faculty Affairs

James Sarazen, MBA, Associate Dean, Administration and Finance

Dean's Office

115 Richards Hall

617.373.5085

617.373.8583 (fax)

cos@northeastern.edu

Student Services Office

206 Mugar Life Sciences Building

617.373.4475

COSAdvising@northeastern.edu

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.

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.

Academic Progression Standards

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

Graduation Clearance Process

Students in the College of Science are required to meet with an academic advisor in the College of Science Student Services Office in 206 Mugar Hall to determine their remaining graduation requirements. Some departments also require a meeting with a faculty advisor in their major/program. This should be completed in the junior year to ensure ample time to complete any outstanding requirements.

College Requirements

All students in the College of Science must successfully complete the university requirements of NUpath (p. 34). In addition, students pursuing a Bachelor of Arts degree must fulfill the BA requirements (p. 37).

Behavioral Neuroscience

Website (<http://www.northeastern.edu/cos/bns>)

Richard H. Melloni Jr., PhD

Professor, Psychology, and Program Director

M. Jade Zee, Assistant Teaching Professor and Associate Director

203 Mugar Life Sciences Building

617.373.2852

bns@northeastern.edu

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.

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. Since the behavioral neuroscience major is already an interdisciplinary program of study, combined or independent majors with behavioral neuroscience are not permitted.

Academic Progression Standards

After four semesters in the major, students must have a GPA of at least 2.000 in all science and math courses and have completed at least six of the following courses:

Complete five of the following:

BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
BIOL 2299	Inquiries in Biological Sciences	4
MATH 1251	Calculus and Differential Equations for Biology 1	4
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
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
PSYC 2320	Statistics in Psychological Research	4
Complete one of the following:		
PSYC 3458	Biological Psychology	4
BIOL 3405	Neurobiology	4

Students who transfer into the behavioral neuroscience major will be allowed two semesters after entering the major to meet the minimum standards for their class. Students must maintain a minimum GPA of 2.000 to remain in this program. Students who fail to meet the above standards will be placed on probation. Two consecutive semesters on probation will result in dismissal from the major.

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. 458)

Minor

- Behavioral Neuroscience (p. 460)

Behavioral Neuroscience, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Behavioral Neuroscience Major Requirements

Survey Courses—Level 1: Introductory

<i>Psychology</i>		
PSYC 1101	Foundations of Psychology	4
<i>Mathematics</i>		
MATH 1251	Calculus and Differential Equations for Biology 1	4
<i>Biology</i>		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
BIOL 2299	Inquiries in Biological Sciences	4
<i>Chemistry</i>		
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
<i>Physics</i>		
Complete one of the following:		
PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	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	
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	

Survey Courses—Level 2: Intermediate

<i>Psychology</i>		
PSYC 2320	Statistics in Psychological Research	4
PSYC 3458	Biological Psychology	4
<i>Biology</i>		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
<i>Chemistry</i>		
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

Behavioral Neuroscience Core Requirements

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
PSYC 3506	Neuropsychology of Fear
PSYC 3508	Behavioral Endocrinology
PSYC 3510	Brain, Behavior, and Immunity
BIOL 3601	Neural Systems and Behavior
BIOL 3605	Developmental Neurobiology
PSYC 4510	Psychopharmacology
PSYC 4512	Neuropsychology
PSYC 4514	Clinical Neuroscience
PSYC 4570	Behavioral Genetics
BIOL 4705	Neurobiology of Cognitive Decline
BIOL 5587	Comparative Neurobiology
PT 5410 and PT 5411	Functional Human Neuroanatomy and Lab for PT 5410

Behavioral Neuroscience Advanced Courses

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 4524	Cognitive Development
PSYC 4520	Language and the Brain

Biology Elective

Complete one of the following: 4-5

BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321
BIOL 2323 and BIOL 2324	and
BIOL 3401 and BIOL 3402	Comparative Vertebrate Anatomy and
BIOL 3407	Molecular Cell Biology
BIOL 3409	Current Topics in Biology
BIOL 3603	Mammalian Systems Physiology
BIOL 5306	Biological Clocks
BIOL 5543	Stem Cells and Regeneration
BIOL 5581	Biological Imaging
BIOL 5601	Multidisciplinary Approaches in Motor Control

Specialty Course

Complete one of the following: 4

BIOL 2309	Techniques in Biology: An Inquiry-Based Lab
-----------	---------------------------------------------

PSYC 4508	Assessment and Data Collection in Applied Behavior Analysis
PSYC 4606	Laboratory in Biological Psychology
PSYC 4612	Laboratory in Cognition
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
PSYC 4994	Internship in Psychology
PSYC 4965	Undergraduate Teaching Experience

Behavioral Neuroscience Experiential Learning Requirement

Complete one of the following two options:

Option 1: Practical and Reflective Experience

Practical Experience

Complete a research co-op, directed study, or internship.

Reflective Experience

Complete one of the following: 4

BIOL 4701	Biology Capstone
PSYC 4650 to PSYC 4674	

Option 2: Honors Project

Complete two of the following: 8

BIOL 4970 and BIOL 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

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	Hours	
BIOL 1107 and BIOL 1108	5	BIOL 2299	4	BIOL 2301 and BIOL 2302	5	Vacation	0		
PSYC 1101	4	PSYC 3458	4	Adv PSYC elective	4				
CHEM 1211 and CHEM 1212 and CHEM 1213	5	CHEM 1214 and CHEM 1215 and CHEM 1216	5						
MATH 1251	4	ENGW 1111	4						
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 BNS core course 2	4 Elective	4	
BNS core course 1	4 Specialty course	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
BIOL 1107 and BIOL 1108	5 BIOL 2299	4 Vacation	0 Vacation	0
PSYC 1101	4 PSYC 3458	4		
CHEM 1211 and CHEM 1212 and CHEM 1213	5 CHEM 1214 and CHEM 1215 and CHEM 1216	5		
MATH 1251	4 ENGW 1111	4		
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 Adv PSYC elective	4
CHEM 2311 and CHEM 2312	5		Elective	4

PSYC 2320	4			
Specialty course	4			
EESC 2000	1			
	19	0	0	8

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CHEM 2313 and CHEM 2314	5 Co-op	0 Co-op	0 Vacation	0
BNS core course 1	4			
BNS core course 2	4			
Elective	4			
	17	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 BIOL elective	5			
Elective	4			
	18	0	0	0

Year 5		
Fall	Hours Spring	Hours
BNS core course 4	4 BNS core course 6	5
BNS core course 5	4 Capstone course	4
ENGW 3307	4 Elective	4
Elective	5 Elective	4
	17	17

Total Hours: 132

Behavioral Neuroscience, Minor

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

Intermediate Course

PSYC 3458 or BIOL 3405	Biological Psychology or Neurobiology	4
------------------------	---------------------------------------	---

Psychology Core Courses

Complete two of the following courses: 8

PSYC 3506	Neuropsychology of Fear
PSYC 3508	Behavioral Endocrinology
PSYC 4514	Clinical Neuroscience
PSYC 3510	Brain, Behavior, and Immunity
PSYC 4510	Psychopharmacology
PSYC 4512	Neuropsychology

PSYC 4570	Behavioral Genetics
-----------	---------------------

Biology Core Courses

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

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

203 Mugar Life Sciences Building
617.373.2852

Morline Gordon-Grier, Administrative Secretary,
m.gordongrier@northeastern.edu

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.

Academic Progression Standards

After four semesters in the major, students must have a grade-point average (GPA) of at least 2.000 in all science and math courses and have completed at least six of the following courses:

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	Techniques in Biology: An Inquiry-Based Lab	4
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
MATH 1251	Calculus and Differential Equations for Biology 1	4
MATH 1252	Calculus and Differential Equations for Biology 2	4

Students who transfer into the biochemistry major will be allowed two semesters after entering the major to meet the minimum standards for their class. Students who fail to meet the above standards will be placed on departmental probation. Two consecutive semesters on departmental probation will result in dismissal from the major.

To graduate with a major in biochemistry, a student must have a cumulative GPA of 2.000 for all science and mathematics courses required for the major.

No double majors are offered in biochemistry and biology, in biochemistry and chemistry, or in biochemistry and behavioral neuroscience due to similarity in course curricula. Students must maintain a minimum GPA of 2.000 to remain in this program.

Programs

Bachelor of Science (BS)

- Biochemistry (p. 461)

Dual Degree

- Biochemistry/Biotechnology, BS/MS (p. 463)

Biochemistry, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Biochemistry Breadth Courses

A minimum GPA of 2.000 is required for the biochemistry breadth courses.

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 Requirements

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	Techniques in Biology: An Inquiry-Based 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 2323 and BIOL 2324	and	5
-------------------------	-----	---

BIOL 3407	Molecular Cell Biology	4
-----------	------------------------	---

CHEM 5620	Protein Chemistry	3
-----------	-------------------	---

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.

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

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 Major Credit/GPA Requirements

Complete 94 semester hours in the major with a cumulative GPA of 2.000.

Due to overlap in course content, double majoring in biochemistry and biology, biochemistry and behavioral neuroscience, or biochemistry and chemistry is not permitted.

Program Requirement

136 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
BIOL 1107	4 BIOL 2299	4 Vacation	0 Vacation	0
BIOL 1108	1 CHEM 1214	4		
CHEM 1211	4 CHEM 1215	1		
CHEM 1212	1 CHEM 1216	0		
CHEM 1213	0 ENGW 1111	4		
MATH 1251	4 MATH 1252	4		
Elective	4			
BIOC 1000	1			
	19	17	0	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
BIOL 2301	4 BIOL 2309	4 Vacation	0 Co-op	0
BIOL 2302	1 CHEM 2313	4		
CHEM 2311	4 CHEM 2314	1		
CHEM 2312	1 PHYS 1151	3		
Elective	4 PHYS 1152	1		
Elective	4 PHYS 1153	1		
	EESC 2000	1		
	Elective	4		
	18	19	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 BIOL 2323	4 BIOL or CHEM advanced elective	5 Co-op	0
	BIOL 2324	1 Elective	4	
	PHYS 1155	3		
	PHYS 1156	1		
	PHYS 1157	1		
	CHEM 5620	3		
	ENGW 3307	4		
	0	17	9	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CHEM 3431	4 BIOL or CHEM advanced elective	5 Co-op	0
	CHEM 3432	1 Elective	4	
	BIOL 3407	4		
	Elective	4		

BIOL or CHEM advanced elective

0 18 9 0

Year 5

Fall	Hours Spring	Hours
Co-op	0 CHEM 4750 or BIOL 4701	4
	Elective	4
	Elective	4
	0	12

Total Hours: 138

Biochemistry/Biotechnology, BS/MS

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Requirements for Admission to the Program

Students should apply for the BS/MS program during their fifth academic semester. Before applying, students must have completed 80 semester hours and one co-op experience.

Biochemistry Breadth Courses

A minimum GPA of 2.000 is required for the biochemistry breadth courses.

Mathematics Courses

Complete Option 1 or Option 2: 8-12

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

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 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

Biochemistry Major Requirements**Introduction to Biochemistry**

BIOC 1000 Biochemistry at Northeastern 1

Principles of Biology**Biology 1**

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 3407 Molecular Cell Biology 4

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

Additional Chemistry Courses

CHEM 2331 and CHEM 2332 Bioanalytical Chemistry and Lab for CHEM 2331 5

CHEM 3431 and CHEM 3432 Physical Chemistry and Lab for CHEM 3431 5

CHEM 5620 Protein Chemistry 3

Biochemistry Courses

BIOL 2323 and BIOL 2324 5

Experiential Learning Introduction

EESC 2000 Professional Development for Co-op 1

Experiential Learning

Two six-month undergraduate co-op experiences are required, preferably in the biotechnology industry.

Capstone

BIOL 4701 or CHEM 4770 Biology Capstone or Chemistry Capstone 4

5 Graduate Course Work to Be Taken As an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Required Courses

BIOL 5591	Advanced Genomics	4
BIOT 5120	Introduction to Biotechnology	3
BIOT 6214	Experimental Design and Biometrics	2
BIOT 5219	The Biotechnology Enterprise	2
BIOT 5631	Cell Culture Processes for Biopharmaceutical Production	3
CHEM 5620	Protein Chemistry	3

Biochemistry Major Credit/GPA Requirements

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

Due to overlap in course content, double majoring in biochemistry and behavioral neuroscience, biochemistry and biology, or biochemistry and chemistry is not permitted.

Program Requirements

136 total semester hours required for the bachelor's degree
Minimum 3.000 GPA required in all graduate courses

Biology

Website (<http://www.northeastern.edu/biology>)

Wendy A. Smith, PhD

College of Arts and Sciences Distinguished Associate Professor and Interim Chair

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 geology; 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, predoctoral, and other preprofessional students are urged to consult with the prehealth advising program early in their careers at Northeastern.

Academic Progression Standards

After four semesters in the major, students must have a GPA of at least 2.000 in all science and math courses and have completed at least six of the following courses:

<i>BIOL 1107 and BIOL 1108</i>	<i>Foundations of Biology and Lab for BIOL 1107</i>	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	Techniques in Biology: An Inquiry-Based Lab	4
MATH 1251	Calculus and Differential Equations for Biology 1	4
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

Students who transfer into the biology major or cell and molecular biology major will be allowed two semesters after entering the major to meet the minimum standards for their class. Students who fail to meet the above standards will be placed on departmental probation. Two consecutive semesters on departmental probation will result in dismissal from the major.

To graduate with a major in biology or cell and molecular biology, a student must have a cumulative GPA of 2.000 for all science and mathematics courses required for the major.

Programs

Bachelor of Science (BS)

- Biology (p. 465)
- Cellular and Molecular Biology (p. 466)
- Biology and English (p. 467)
- Biology and Mathematics (p. 470)
- Biology and Political Science (p. 471)
- Computer Science and Biology (p. 473)

Dual Degrees

- BS in Biology/MS in Biotechnology (p. 475)
- BS/PhD in Biology (p. 476)

Minors

- Biology (p. 477)

Biology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Breadth Courses for Biology

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 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
-------------------------	-------------------------------------------	---

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	Physics 2
and PHYS 1166	and Lab for PHYS 1165

Biology Major Requirements

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
----------------------------	---------------------------------------------------------	---

Techniques

BIOL 2309	Techniques in Biology: An Inquiry- Based Lab	4
-----------	-------------------------------------------------	---

Biochemistry

BIOL 2323 and BIOL 2324	and	5
----------------------------	-----	---

Biology Major Electives

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
-----------	--------------------

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 2618 and EEMB 2619	Vertebrate Zoology and Lab for EEMB 2618
----------------------------	---------------------------------------------

EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700
----------------------------	-----------------------------------------

Intermediate and Advanced Biology

Complete three 4–5-semester-hour courses from the following:	12-15
--------------------------------------------------------------	-------

BIOL 2321 to BIOL 3999

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 4970	Junior/Senior Honors Project 1
-----------	--------------------------------

BIOL 4971	Junior/Senior Honors Project 2
-----------	--------------------------------

Biology Capstone

BIOL 4701	Biology Capstone	4
-----------	------------------	---

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

Cell and Molecular Biology, BS

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: "TBD" stands for "to be determined."

Breadth Courses For Biology

Mathematics

MATH 1251	Calculus and Differential Equations for Biology 1	4
-----------	------------------------------------------------------	---

Chemistry

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
----------------------------	----------------------------------------------	---

Physics

Physics 1

Complete one of the following lecture/lab pairs. PHYS1145/ PHYS1146 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. PHYS1147/ PHYS1148 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	

Statistics

ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	5
----------------------------	----------------------------------------	---

Cell and Molecular Biology Major Requirements**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
----------------------------	-------------------------------------------------	---

Inquiries

BIOL 2299	Inquiries in Biological Sciences	4
-----------	----------------------------------	---

Techniques

BIOL 2309	Techniques in Biology: An Inquiry- Based Lab	4
-----------	-------------------------------------------------	---

Genetics

BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
----------------------------	---------------------------------------------------------	---

Biochemistry

BIOL 2323 and BIOL 2324	and	5
----------------------------	-----	---

Molecular Biology

Complete both of the following:

BIOL 3407	Molecular Cell Biology	4
BIOL 5591	Advanced Genomics	4

Intermediate/Advanced Biology Electives

Complete three of the following:

BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 3601	Neural Systems and Behavior	
BIOL 3603	Mammalian Systems Physiology	
BIOL 3605	Developmental Neurobiology	
BIOL 5306	Biological Clocks	
BIOL 5307	Biological Electron Microscopy	
BIOL 5499	Plant Biotechnology	
BIOL 5533	Vertebrate Microanatomy	
BIOL 5541	Endocrinology	
BIOL 5543	Stem Cells and Regeneration	
BIOL 5549	Microbial Biotechnology	
BIOL 5569	Advanced Microbiology	
BIOL 5571	Microbial Ecology	
BIOL 5573	Medical Microbiology	
BIOL 5577		
BIOL 5581	Biological Imaging	

BIOL 5583	Immunology	
BIOL 5585	Evolution	
BIOL 5587	Comparative Neurobiology	
BIOL 5593	Cell and Molecular Biology of Aging	
EEMB 5530	Molecular Ecology and Evolution	
<i>Research</i>		
One of the three Intermediate/Advanced Electives can be a research course:		
BIOL 4991	Research	
BIOL 4970	Junior/Senior Honors Project 1	
BIOL 4971	Junior/Senior Honors Project 2	

Biology Capstone

BIOL 4701	Biology Capstone	4
-----------	------------------	---

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 or behavioral neuroscience is not permitted.

Program Requirement

136 total semester hours required

Biology 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Breadth 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		
<i>General Chemistry</i>		
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
<i>Organic Chemistry</i>		

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 are recommended:

PHYS 1145 and PHYS 1146	Physics for Life Sciences 1 and Lab for PHYS 1145	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	

Physics 2

Complete one of the following lecture/lab pairs. PHYS 1147/
PHYS 1148 are recommended:

PHYS 1147 and PHYS 1148	Physics for Life Sciences 2 and Lab for PHYS 1147	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	

Biology Requirements

Code	Title	Hours
------	-------	-------

Introduction to College

BIOL 1000 or ENGL 1000	Biology at Northeastern English 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
----------------------------	---------------------------------------------------------	---

Techniques

BIOL 2309	Techniques in Biology: An Inquiry- Based Lab	4
-----------	-------------------------------------------------	---

Biochemistry

BIOL 2323 and BIOL 2324	and	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	5
----------------------------	---------------------------------------	---

BIOL 2327	Human Parasitology	4
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	5
EEMB 2400	Introduction to Evolution	4
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	5
EEMB 2618 and EEMB 2619	Vertebrate Zoology and Lab for EEMB 2618	5
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	5

English Requirements

Code	Title	Hours
------	-------	-------

English Course-Level Requirements

Two of the courses chosen from the lists below must be
numbered 3000–4999.

Foundational Courses

ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	4
ENGL 1160 or ENGL 1410	Introduction to Rhetoric Introduction to Writing Studies	4

Diversity

This course may also be used to fulfill an additional English
requirement below.

Complete one of the following: 4

ENGL 2296	Early African-American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 3685 or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	

Pre-Nineteenth-Century Literature

Complete one of the following: 4

ENGL 1600	Introduction to Shakespeare	
ENGL 2200	The Bible	
ENGL 2210	Medieval British Literature	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	
ENGL 2230	Sixteenth-Century British Literature	
ENGL 2240	Seventeenth-Century British Literature	
ENGL 2250	Eighteenth-Century British Literature	
ENGL 2295	Revolution and Revolt in Early American Literature	
ENGL 2296	Early African-American Literature	
ENGL 3151	Topics in Early Literatures Abroad	
ENGL 3607	Chaucer	
ENGL 3618	Milton	

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 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2270	Victorian Literature	
ENGL 2280	Nineteenth-Century British Fiction	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	Nineteenth-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
Twentieth- and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2290	Twentieth-Century British Literature	
ENGL 2291	Major Twentieth-Century British Novelists	
ENGL 2355	Modern American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture Abroad	
ENGL 2610	Contemporary Israeli Literature and Art Abroad	
or JWSS 2610	Contemporary Israeli Literature and Art Abroad	
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure	
ENGL 4060	Topics in 20th- and 21st-Century Literatures	
Theories and Methods		
Complete one of the following:		4
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2830	Literary Theory	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 4400	Opening the Archive	
ENGL 4100	Topics in Literary Criticism	4
ENGL 4110	Topics in Rhetoric and Writing Studies	
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 1501	British Literature 1800 to Present	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text Abroad	
ENGL 3488	Film and Text	
ENGL 3572	Fantasy	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 4070	Topics in Genre	4
ENGL 4684	Topics in Postcolonial Literature	4
ENGL 4688	Topics in Comparative Textual Studies	4
Writing		
Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2770	Writing to Heal	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 2710	Style and Editing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 3375	Writing Boston	
ENGL 3379	Nonfiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	

Integrative Courses

Code	Title	Hours
Integrative English Course		

Complete one of the following:	4
ENGL 2520 Science Fiction	
ENGL 3427 The Literature of Science	
ENGL 3340 Technologies of Text	

Integrative General Biological Sciences Course

Complete one of the following:	4
PSYC 3464 Psychology of Language	
PSYC 4520 Language and the Brain	
PSYC 4522 Psychology of Reading	
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**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Biology Major Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000	Biology at Northeastern	1
or MATH 1000	Mathematics at Northeastern	
Required Biology		
<i>Foundations</i>		
BIOL 1107	Foundations of Biology	5
and BIOL 1108	and Lab for BIOL 1107	
<i>Inquiries</i>		
BIOL 2299	Inquiries in Biological Sciences	4
<i>Genetics</i>		

BIOL 2301	Genetics and Molecular Biology	5
and BIOL 2302	and Lab for BIOL 2301	
<i>Techniques</i>		

BIOL 2309	Techniques in Biology: An Inquiry-Based Lab	4
-----------	---------------------------------------------	---

Chemistry*General Chemistry*

CHEM 1211	General Chemistry 1	5
and CHEM 1212	and Lab for CHEM 1211	

CHEM 1214	General Chemistry 2	5
and CHEM 1215	and Lab for CHEM 1214	

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	

Biochemistry

BIOL 2323	and	5
and BIOL 2324		

Organismal and Population Biology

Complete one of the following: 4-5

BIOL 2321	Microbiology	
and BIOL 2322	and Lab for BIOL 2321	

BIOL 2327	Human Parasitology	
-----------	--------------------	--

EEMB 2302	Ecology	
and EEMB 2303	and Lab for EEMB 2302	

EEMB 2400	Introduction to Evolution	
-----------	---------------------------	--

EEMB 2610	Plant Biology	
and EEMB 2611	and Lab for EEMB 2610	

EEMB 2616	Invertebrate Zoology	
and EEMB 2617	and Lab for EEMB 2616	

EEMB 2618	Vertebrate Zoology	
and EEMB 2619	and Lab for EEMB 2618	

EEMB 2700	Marine Biology	
and EEMB 2701	and Lab for EEMB 2700	

Mathematics Major 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	Physics 1	5
and PHYS 1162	and Lab for PHYS 1161	

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
or MATH 4000	Co-op and Experiential Learning Reflection Seminar 2	
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	
Advanced Writing in the Disciplines		
ENGW 3307	Advanced Writing in the Sciences	4
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 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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Biology Major Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000	Biology at Northeastern	1
or POLS 1000	Political Science at Northeastern	
Biology		
<i>Foundations</i>		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
<i>Inquiries</i>		
BIOL 2299	Inquiries in Biological Sciences	4
<i>Genetics</i>		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
<i>Techniques</i>		
BIOL 2309	Techniques in Biology: An Inquiry-Based Lab	4
<i>Biochemistry</i>		
BIOL 2323 and BIOL 2324		5
<i>Organismal and Population Biology</i>		
Complete one of the following:		4-5
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
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 2618 and EEMB 2619	Vertebrate Zoology and Lab for EEMB 2618	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
Mathematics		
MATH 1251	Calculus and Differential Equations for Biology 1	4
Chemistry		
<i>General Chemistry</i>		
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
<i>Organic Chemistry</i>		
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
----------------------------	------------------------------------------------------	---

Political Science Major 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 2326	Premodern Political Thought	
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 2385	U.S. Health and Welfare Policy	
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	
POLS 3409	Global Governance	
POLS 3412	Homeland Security Policy and Politics	
POLS 3410	Nontraditional Security Issues	

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 Course

Note: Science, Technology, and Public Policy (POLS 2390) cannot be used both as an integrative course and as an elective above.

Code	Title	Hours
POLS 2390 or POLS 2395	Science, Technology, and Public Policy Environmental Politics and Policy	4

Program Requirement

128 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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	
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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
		2
CS 1200	Computer Science/Information Science Overview 1 ¹	
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation ²	
Computer Science Fundamental Courses		
A grade of C– or higher is required in each course:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation (integrative course)	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data (integrative course)	4
Senior Seminar		
CS 4000	Senior Seminar	1

¹ Students entering through the biology department may take BIOL 1000.

² Students entering through the biology department may take 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
-------------------------	------------------------------------------------------	---

Techniques in Biology

BIOL 2309	Techniques in Biology: An Inquiry-Based Lab	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
---------------------------------------	------------------------------------------------------------------------	---

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 2323 and BIOL 2324	and	
-------------------------	-----	--

EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
-------------------------	-------------------------------	--

EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
-------------------------	--------------------------------------------	--

EEMB 2618 and EEMB 2619	Vertebrate Zoology and Lab for EEMB 2618	
-------------------------	------------------------------------------	--

EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
-------------------------	--------------------------------------	--

Choose the second elective from the following list: 4-5
BIOL 2311 or above

Biology Integrative Course

Complete one of the following: 4-5

BINF 6308	Bioinformatics Computational Methods 1	
-----------	----------------------------------------	--

BIOL 3407	Molecular Cell Biology	
-----------	------------------------	--

BIOL 3603	Mammalian Systems Physiology	
-----------	------------------------------	--

BIOL 5581	Biological Imaging	
-----------	--------------------	--

BIOL 5587	Comparative Neurobiology	
-----------	--------------------------	--

EEMB 5530 and EEMB 5531	Molecular Ecology and Evolution and Lab for EEMB 5530	
-------------------------	-------------------------------------------------------	--

EEMB 5548	Sociobiology	
-----------	--------------	--

Mathematics Requirements

Complete two calculus courses with a grade of C– or higher, and complete one probability and statistics course:

Code	Title	Hours
Calculus		
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 Requirement

Code	Title	Hours
Complete one of the following: 4		
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	

English 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	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses.

Required General Electives

Complete five general electives.

NUpath Requirements Satisfied

- Engaging with the Natural and Designed World
- 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

140 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
CS 1800	4	CS 2510	4	Vacation	0
CS 2500	4	CS 2511	1		
CS 2501	1	BIOL 2299	4		
BIOL 1107	4	CHEM 1214	4		
BIOL 1108	1	CHEM 1215	1		

CHEM 1211	4	CHEM 1216	0
CHEM 1212	1	ENGW 1111	4
CHEM 1213	0		
CS 1200	1		
CS 1801	0		

20 18 0 0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 4800	4	Vacation	0	Co-op	0
CHEM 2311	4	BIOL 2309	4				
CHEM 2312	1	CHEM 2313	4				
CS 2800	4	CHEM 2314	1				
CS 2801	1	MATH 1251	4				
BIOL 2301	4	CS 1210	1				
BIOL 2302	1						

19 18 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
		BIOL elective	4-5	Elective	4		
		MATH 1252	4				
		Elective	4				

0 16-17 8 0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 3200	4	Elective	4	Co-op	0
		BIOL elective	4-5	Elective	4		
		MATH 3081	4				
		SOCL 4528	4				

0 16-17 8 0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS 4500	4
		CS 4000	1
		BIOL elective	4-5
		BIOL 4701	4
		Elective	4

0 17-18

Total Hours: 140-143

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

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800	4	CS 2510	4	Vacation	0	Vacation	0
CS 2500	4	CS 2511	1				
CS 2501	1	BIOL 2299	4				
BIOL 1107	4	CHEM 1214	4				
BIOL 1108	1	CHEM 1215	1				
CHEM 1211	4	CHEM 1216	0				
CHEM 1212	1	ENGW 1111	4				
CHEM 1213	0						
CS 1200	1						

CS 1801	0				
	20	18	0	0	
Year 2					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
BIOL 2301	4 Co-op	0 Co-op	0 Vacation	0	
BIOL 2302	1				
CHEM 2311	4				
CHEM 2312	1				
CS 2800	4				
CS 2801	1				
CS 3500	4				
CS 1210	1				
	20	0	0	0	
Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
CS 4800	4 Co-op	0 Co-op	0 Elective	4	
BIOL 2309	4		ENGV 3302	4	
CHEM 2313	4				
CHEM 2314	1				
MATH 1251	4				
	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	
BIOL elective	4-5		Elective	4	
MATH 1252	4				
Elective	4				
	16-17	0	0	8	
Year 5					
Fall	Hours Spring	Hours			
CS 3200	4 CS 4500	4			
MATH 3081	4 CS 4000	1			
BIOL elective	4-5 BIOL 4701	4			
SOCL 4528	4 BIOL elective	4-5			
	Elective	4			
	16-17	17-18			

Total Hours: 140-143

Biology, BS/Biotechnology, MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Application Procedures

Students should apply for the BS/MS PlusOne program during their fifth academic semester. Before applying, students must have completed 80 semester hours and one co-op experience.

Breadth Courses for Biology

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 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
-------------------------	-------------------------------------------	---

Physics

Complete one of the following lecture/lab pairs. PHYS1145 and PHYS1146 are recommended:

Physics 1

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. PHYS1147 and PHYS1148 are recommended:

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
-------------------------	---------------------------------

Biology Major Requirements

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
----------------------------	---------------------------------------------------------	---

Techniques

BIOL 2309	Techniques in Biology: An Inquiry- Based Lab	4
-----------	-------------------------------------------------	---

Biochemistry

BIOL 2323 and BIOL 2324	and	5
----------------------------	-----	---

Cell Biology

BIOL 3407	Molecular Cell Biology	4
-----------	------------------------	---

Experiential Learning

Two undergraduate co-op experiences are required, preferably in the biotechnology industry.

Biology Major Elective**Organismal and Population Biology**

Complete one of the following: 4-5

BIOL 2321 Microbiology
and BIOL 2322 and Lab for BIOL 2321

BIOL 2327 Human Parasitology

EEMB 2302 Ecology
and EEMB 2303 and Lab for EEMB 2302

EEMB 2400 Introduction to Evolution

EEMB 2616 Invertebrate Zoology
and EEMB 2617 and Lab for EEMB 2616

EEMB 2618 Vertebrate Zoology
and EEMB 2619 and Lab for EEMB 2618

EEMB 2700 Marine Biology
and EEMB 2701 and Lab for EEMB 2700

Biology Capstone

BIOL 4701	Biology Capstone	4
-----------	------------------	---

Graduate Course Work to Be Taken As an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

BIOL 5591	Advanced Genomics	4
-----------	-------------------	---

BIOT 5120	Introduction to Biotechnology	3
-----------	-------------------------------	---

BIOT 6214	Experimental Design and Biometrics	2
-----------	------------------------------------	---

BIOT 5219	The Biotechnology Enterprise	2
-----------	------------------------------	---

BIOT 5631	Cell Culture Processes for Biopharmaceutical Production	3
-----------	------------------------------------------------------------	---

CHEM 5620	Protein Chemistry	3
-----------	-------------------	---

Biology Major Credit/GPA Requirements

Complete 81 semester hours for the major with a cumulative GPA of 2.000.

Program Requirements

136 total semester hours required for the bachelor's degree
Minimum 3.000 GPA required in all graduate courses

Biology, BS/PhD**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Breadth Courses for Biology**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 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
----------------------------	----------------------------------------------	---

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 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 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	

Biology Major Requirements

Introduction to College

BIOL 1000	Biology at Northeastern	1
-----------	-------------------------	---

Experiential Learning Introduction

EESC 2000	Professional Development for Co-op	1
-----------	------------------------------------	---

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
----------------------------	---------------------------------------------------------	---

Techniques

BIOL 2309	Techniques in Biology: An Inquiry- Based Lab	4
-----------	-------------------------------------------------	---

Biochemistry

BIOL 2323 and BIOL 2324	and	5
----------------------------	-----	---

Biology Major Electives

Organismal and Population Biology

Complete one of the following: 4-5

BIOL 2321 and 2321	Microbiology and Microbiology	
BIOL 2327	Human Parasitology	
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 2618 and EEMB 2619	Vertebrate Zoology and Lab for EEMB 2618	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	

Intermediate and Advanced Biology

Complete one 4–5-semester-hour course from the following: 4-5

BIOL 2321 to BIOL 3999	
BIOL 5000 to BIOL5999	
EEMB 2290 to EEMB 5515	
EEMB 5520 to EEMB 5534	
EEMB 5548 to EEMB 5569	
ENVR 5242	Ancient Marine Life
BIOL 4991	Research
BIOL 4970	Junior/Senior Honors Project 1

Biology Capstone

BIOL 4701	Biology Capstone	4
-----------	------------------	---

Graduate Course Work to Be Taken As an Undergraduate Student

Minimum 3.500 GPA required in all graduate courses

Electives

Complete two courses as follows:	8-10
Any 5000-level or 6000-level BIOL course	

Biology Major Credit/GPA Requirements

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, or biology and behavioral neuroscience is not permitted.

Program Requirements

136 total semester hours required for the bachelor's degree
Minimum 3.500 GPA required in all graduate courses

Biology, Minor

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 23 semester hours. Three of the five courses must be at the 2000 level or above. Three of the five courses must contain a lab corequisite.

Options:

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

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

Associate Professor and Interim Chair

102 Hurtig Hall

617.373.2383/617.373.2822

617.373.8795 (fax)

Kathleen B. Dioli, Assistant Cooperative Education Coordinator and Head Advisor, k.cameron@northeastern.edu

The Department of Chemistry and Chemical Biology provides education in basic chemistry and modern chemistry-related disciplines. The department offers an American Chemical Society–certified program leading to a Bachelor of Science in Chemistry and also offers a Bachelor of Science in Biochemistry jointly with the Department of Biology. The overall objective of the Bachelor of Science in Chemistry major program is to provide the fundamental scientific background and practical training for students as they prepare for chemically related careers or advanced study in fields including the traditional chemical specialties, as well as biochemistry, materials science, forensic science, medicine, education, law, and other endeavors that may draw upon an understanding of the chemical basis of the world around us.

Key general objectives are the development of qualitative and quantitative problem-solving skills and effective communication skills. Specific learning objectives for the chemistry major include 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; synthesizing and characterizing compounds; learning proper laboratory practices, including safety; developing proficiency with modern instruments and computers for data acquisition and analysis; 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 that experience add immensely to the overall education received, it also has the potential to provide contacts and references for later employment or graduate school admissions. Chemistry majors also undertake a research project for at least one semester under the supervision of a faculty member. Sufficient electives are available in the program either to take more advanced courses or research within the department or to add courses in an area of special interest, such as criminal justice in the case of an interest in forensic science. Qualified students may also participate in a five-year BS/MS program.

Academic Progression Standards

Students who began as freshman chemistry majors must, after four semesters, have completed 64 semester hours and the following courses with grades of C or better:

CHEM 1217 and CHEM 1218	General Chemistry 1 for Chemical Science Majors and Lab for CHEM 1217	6
CHEM 1220 and CHEM 1221	General Chemistry 2 for Chemical Science Majors and Lab for CHEM 1220	6
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

CHEM 2331 and CHEM 2332	Bioanalytical Chemistry and Lab for CHEM 2331	5
----------------------------	--------------------------------------------------	---

Students who transferred into the major must, after two semesters, have completed 32 semester hours and the following courses with grades of B or better and have a QPA of at least 2.750 in all chemistry, math, and physics courses.

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

or equivalent courses

Programs

Bachelor of Science (BS)

- Chemistry (p. 478)
- Environmental Geology and Chemistry (p. 480)

Dual Degree

- Chemistry, BS/MS (p. 481)

Minor

- Chemistry (p. 482)

Chemistry, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Chemistry Major Technical Requirements

Mathematics

MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4

Physics 1

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
---------------------------------------------	---------------------------------------------------------------------------------------------------------	---

Physics 2

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 Requirements

General Chemistry 1

CHEM 1217 and CHEM 1218	General Chemistry 1 for Chemical Science Majors and Lab for CHEM 1217	6
----------------------------	-----------------------------------------------------------------------------	---

General Chemistry 2

CHEM 1220 and CHEM 1221	General Chemistry 2 for Chemical Science Majors and Lab for CHEM 1220	6
----------------------------	-----------------------------------------------------------------------------	---

Intermediate-Level Chemistry—Organic Chemistry 1

CHEM 2315 and CHEM 2316	Organic Chemistry 1 for Chemistry Majors and Lab for CHEM 2315	6
----------------------------	----------------------------------------------------------------------	---

Intermediate-Level Chemistry—Organic Chemistry 2

CHEM 2317 and CHEM 2318	Organic Chemistry 2 for Chemistry Majors and Lab for CHEM 2317	6
----------------------------	----------------------------------------------------------------------	---

Intermediate-Level Chemistry 1*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

CHEM 3501 or CHEM 3505	Inorganic Chemistry Introduction to Bioinorganic Chemistry	4
---------------------------	---------------------------------------------------------------	---

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
-----------	-----------------	---

Chemistry Major Credit Requirement

Complete 83 semester hours in the major.

Program Requirement

136 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
Elective	4	CHEM 1220	4	Vacation	0	Vacation	0
MATH 1341	4	CHEM 1221	2				
ENGW 1111	4	CHEM 1222	0				
CHEM 1217	4	PHYS 1151	3				
CHEM 1218	2	PHYS 1152	1				
CHEM 1219	0	PHYS 1153	1				
CHEM 1000	1	MATH 1342	4				
		Elective	4				
	19		19		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CHEM 2315	4	CHEM 2317	4	Vacation	0	Co-op	0
CHEM 2316	2	CHEM 2318	2				
PHYS 1155	3	CHEM 4628	4				
PHYS 1156	1	CHEM 4629	2				
PHYS 1157	1	Elective	4				
CHEM 2321	4	Elective	4				
CHEM 2322	1	EESC 2000	1				
		Elective	4				
	20		21		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHEM 3431	4	CHEM 3521	1	Co-op	0
		CHEM 3432	1	CHEM 3522	4		
		ENGW 3307	4	CHEM 3531	1		
		Elective	4	CHEM 3506	1		
		CHEM 3505	4				
		CHEM 3506	1				
	0		18		7		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CHEM 3403	4	Vacation	0	Co-op	0
		CHEM 3404	1				
		CHEM 4621	4				
		CHEM 4622	1				
		Elective	4				
		Elective	4				
	0		18		0		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CHEM 4750	4
		Elective	4
		Elective	4
		Elective	4
	0		16

Total Hours: 138

Environmental Geology and Chemistry, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Environmental Geology Breadth Courses

Code	Title	Hours
Mathematics		
MATH 1241	Calculus 1	4
MATH 1242	Calculus 2	4
Science Requirement		
Complete one of the following options:		10
<i>Biology Option:</i>		
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	
<i>Physics Option:</i>		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	

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 2 Intermediate or Advanced Electives from ENVR 2300 to ENVR 5999		8-10

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	
ENVR 5282		

Environmental Geology/Chemistry Major Credit Requirement

Complete 94 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
MATH 1241	4	MATH 1242	4	Vacation	0
CHEM 1211	4	CHEM 1214	4		
CHEM 1212	1	CHEM 1215	1		
CHEM 1213	0	CHEM 1216	0		
ENGW 1111	4	ENVR 1202	4		
ENVR 1200	4	ENVR 1203	1		
ENVR 1201	1	Arts/ humanities core	4		
		18	18	0	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
ENVR 2310	4	CHEM 2311	4	Vacation	0
CHEM 2331	4	CHEM 2312	1		
CHEM 2332	1	GEOL intermediate/ advanced undergraduate elective	4		
ENVR 2311	1	ENGW 3315	4		
PHYS 1161	4	History/ ethics/ aesthetics core course	4		

PHYS 1162	1			
Diversity requirement	4			
	19	17	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CHEM 2313	4 CHEM 3431	4 Vacation	0 Vacation	0
CHEM 2314	1 CHEM 3432	1		
BIOL 1113	4 ENVR 2340	4		
BIOL 1114	1 ENVR 2341	1		
CHEM 3521	1 Analysis core course	4		
CHEM 3522	4 Elective	4		
Social world core	4			
	19	18	0	0

Year 4

Fall	Hours Spring	Hours
CHEM 3403	4 Elective	4
CHEM 3404	1 Elective	4
GEOL intermediate/advanced undergraduate elective	4 Elective	4
Elective	4 Elective	4
Elective	4	
	17	16

Total Hours: 142

Chemistry, BS/MS**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Chemistry Major Technical Requirements**Mathematics**

MATH 1341	Calculus 1 for Science and Engineering	4
MATH 1342	Calculus 2 for Science and Engineering	4

Physics 1

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
---------------------------------------	------------------------------------------------------------------------------------------------	---

Physics 2

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 Requirements**General Chemistry 1**

CHEM 1217 and CHEM 1218	General Chemistry 1 for Chemical Science Majors and Lab for CHEM 1217	6
-------------------------	-----------------------------------------------------------------------	---

General Chemistry 2

CHEM 1220 and CHEM 1221	General Chemistry 2 for Chemical Science Majors and Lab for CHEM 1220	6
-------------------------	-----------------------------------------------------------------------	---

Intermediate-Level Chemistry—Organic Chemistry 1

CHEM 2315 and CHEM 2316	Organic Chemistry 1 for Chemistry Majors and Lab for CHEM 2315	6
-------------------------	----------------------------------------------------------------	---

Intermediate-Level Chemistry—Organic Chemistry 2

CHEM 2317 and CHEM 2318	Organic Chemistry 2 for Chemistry Majors and Lab for CHEM 2317	6
-------------------------	----------------------------------------------------------------	---

Intermediate-Level Chemistry 1*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	

Biochemistry

CHEM 5621 and CHEM 5622	Principles of Chemical Biology for Chemists and Lab for CHEM 5621	4
-------------------------	-------------------------------------------------------------------	---

Advanced-Level Chemistry

CHEM 5647 or CHEM 5646	Bioinorganic Chemistry or Synthesis and Reactivity of Inorganic Compounds	3
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 5628	Principles of Spectroscopy of Organic Compounds	3

Senior Research/Capstone

CHEM 4750	Senior Research	4
-----------	-----------------	---

Graduate Course Work to Be Taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Graduate Electives

In consultation with your faculty advisor, complete four graduate electives in the following range: 12

CHEM 5601 to CHEM 7000

Program Requirements

136 total semester hours required for the bachelor's degree

Minimum 3.000 GPA required in all graduate courses

Chemistry, Minor

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 Chemical Thermodynamics and Kinetics (CHEM 3401).

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

Complete one of the following: 5

CHEM 3431
and CHEM 3432

Physical Chemistry
and Lab for CHEM 3431

CHEM 3401
and CHEM 3402

Chemical Thermodynamics and
Kinetics
and Lab for CHEM 3401

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

Environmental Studies

Website (<http://www.northeastern.edu/mes>)

Malcolm D. Hill, PhD

Associate Professor

Brian Helmuth, PhD

Professor

14 Holmes Hall
617.373.3176
617.373.4378 (fax)

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. 494) offered by the Department of Marine and Environmental Sciences (p. 493).)

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.

Academic Progression Standards

Same as college standards.

Environmental Studies Minor

The minor in environmental studies is designed to provide a flexible platform for students interested in the environment. Students in the environmental studies minor have an opportunity to develop skills and knowledge in such areas as planning, regulation, policy, and compliance, depending on the upper-level course choices they make.

Programs

For Environmental Studies programs please see the Marine and Environmental Sciences programs (p. 494) tab.

Linguistics

Website (<http://www.northeastern.edu/linguistics>)

Neal J. Pearlmutter, PhD

Associate Professor, Psychology, and Program Director

545 Nightingale Hall
617.373.4553
linguistics@northeastern.edu

Neal J. Pearlmutter, Associate Professor and Program Director,
n.pearlmutter@northeastern.edu
Heather Littlefield, Associate Teaching Professor and Assistant Director,
h.littlefield@northeastern.edu

Linguistics is the scientific study of human language. A growing and exciting field, it has links to diverse fields 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 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 four combined majors: linguistics and psychology, linguistics and cultural anthropology, linguistics and English, and computer science 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 research teams 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.

Academic Progression Standards

Same as college standards.

Programs

Bachelor of Science (BS)

- Linguistics (p. 483)
- Computer Science and Linguistics (p. 485)
- Linguistics and Cultural Anthropology (p. 487)
- Linguistics and Psychology (p. 488)

Bachelor of Arts (BA)

- Linguistics and English (p. 490)

Minor

- Linguistics (p. 493)

Linguistics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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

Required Courses

LING 1150	Introduction to Language and Linguistics	4
LING 2350	Linguistic Analysis	4
LING 3412	Language and Culture	4
LING 3422	Phonetics and Phonology	4
LING 3424 or LING 3452	Morphology Semantics	4
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):

Directed Study

LING 4991	Directed Study Research
LING 4996	Experiential Education Directed Study

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 3402	African-American English
LING 3424	Morphology
LING 3428	African Languages
LING 3430	Applied Linguistics
LING 3432	Romance Linguistics
LING 3434	Bilingualism
LING 3436	Structure of Spanish
LING 3438 or LANG 3438	Structure of French
LING 3442	Sociolinguistics
LING 3444	Linguistics in Education
LING 3448	Issues in Linguistics
LING 3452	Semantics
LING 3454	History of English
LING 3456	Language and Gender
LING 3458	Topics in Linguistics
LING 3460	Historical 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 LING 4993	Independent Study
or LING 4996	Experiential Education Directed Study
or PSYC 4991	Directed Study Research
PHIL 1215	Symbolic Logic
PHIL 4540	Philosophy of Language
PSYC 3466	Cognition
PSYC 4520	Language and the Brain
PSYC 4522	Psychology of Reading
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 60 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	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	

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	

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		4	
		ENGW 3315		4			
		Elective		4			
		0		16		8	

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		4	
		Elective		4			
		Elective		4			
		0		16		8	

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Linguistics seminar	4

Linguistics elective	4
Elective	4
Elective	4
0	16

Total Hours: 130

Computer Science and Linguistics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C– or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 (Integrative course)	5
Computer Science Required Courses		
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	Software Development	4
CS 4800	Algorithms and Data	4
Computer Science Senior Seminar		
CS 4000 or THTR 1170	Senior Seminar The Eloquent Presenter	1

Computer Science Elective Course

With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as upper-division electives.

Complete one course from the following range:	4
CS 2600 to CS 7999 but not CS 5010	
IS 2000 to IS 7999 but not IS 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	Phonetics and 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	
LING 4996	Experiential Education Directed Study	
PSYC 4610	Laboratory in Psycholinguistics	
Linguistics Elective		
Complete one of the following:	4	
DEAF 2700	ASL Linguistics	
LING 3402	African-American English	
LING 3424	Morphology	
LING 3428	African Languages	
LING 3430	Applied Linguistics	
LING 3432	Romance Linguistics	
LING 3434	Bilingualism	
LING 3436	Structure of Spanish	
LING 3438	Structure of French	
LING 3442	Sociolinguistics	
LING 3444	Linguistics in Education	
LING 3448	Issues in Linguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 3460	Historical Linguistics	
LING 4654	Seminar in Linguistics	
PHIL 1215	Symbolic Logic	
PHIL 4540	Philosophy of Language	
PSYC 3466	Cognition	

PSYC 4520	Language and the Brain
PSYC 4522	Psychology of Reading
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
LING 4993	Independent Study
PSYC 4991	Directed Study Research

Seminar Requirement

LING 4654	Seminar in Linguistics	4
or PSYC 4658	Seminar in Psycholinguistics	

Mathematics Requirement

Code	Title	Hours
Calculus		
MATH 1341	Calculus 1 for Science and Engineering (A grade of C- or higher is required)	4

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		
PHIL 1145	Technology and Human Values	4
SOCL 1280	The Twenty-First-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	

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

Complete four 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
Five Years, Three Co-ops**

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1200	1	CS 2510	4	Vacation	0	Vacation	0
CS 2500	4	CS 2511	1				
CS 2501	1	CS 2800	4				
CS 1800	4	CS 2801	1				
CS 1801	0	LING 2350	4				
LING 1150	4	PSYC 1101	4				
ENGW 1111	4						
		18		18		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 3800	4				
LING 3412	4	CS 4800	4				
PSYC 3464 or 2320	4	LING 3422	4				
		PSYC 2320 or 3464	4				
		16		17		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				
		0		16		8	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4100	4	Elective	4	Co-op	0
		Computer science undergraduat elective	4	Elective	4		
		Linguistics laboratory/directed study	4				

LING 3424, 3452, or Linguistics elc	4			
	0	16	8	0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	CS 4500	4
		CS 4000	1
		LING 3452, 3424, or Linguistics elective	4
		LING 4654 or PSYC 4658	4
		SOCL 4528	4
	0		17

Total Hours: 134

Linguistics and Cultural Anthropology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Combined-Major 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	Phonetics and 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 3402	African-American English	
LING 3424	Morphology	
LING 3428	African Languages	
LING 3430	Applied Linguistics	

LING 3432	Romance Linguistics
LING 3434	Bilingualism
LING 3436	Structure of Spanish
LING 3438	Structure of French
LING 3444	Linguistics in Education
LING 3448	Issues in Linguistics
LING 3452	Semantics
LING 3454	History of English
LING 3458	Topics in Linguistics
LING 3460	Historical Linguistics
LING 4654	Seminar in Linguistics
PHIL 1215	Symbolic Logic
PHIL 4540	Philosophy of Language
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 4996	Experiential Education Directed Study
LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2

Anthropology Combined-Major Requirements

Note: A grade of C or higher is required for all courses in this section.

Code	Title	Hours
Cultural Anthropology		
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. 12

Linguistics/Anthropology Integrative Requirement

Code	Title	Hours
Integrative Course		
LING 3412	Language and Culture	4

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**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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	Phonetics and Phonology	4
LING 3450	Syntax	4
Linguistics Electives		
Complete three of the following:		12
DEAF 2700	ASL Linguistics	
LING 3402	African-American English	
LING 3424	Morphology	
LING 3428	African Languages	
LING 3430	Applied Linguistics	
LING 3432	Romance Linguistics	
LING 3434	Bilingualism	
LING 3436	Structure of Spanish	
LING 3438	Structure of French	
LING 3442	Sociolinguistics	
LING 3444	Linguistics in Education	
LING 3448	Issues in Linguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 3460	Historical 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 LING 4993	Independent Study	
PHIL 1215	Symbolic Logic	
PHIL 4540	Philosophy of Language	

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 2356 Nonverbal Communication

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 4522 Psychology of Reading

PSYC 4524 Cognitive Development

PSYC 4526 Categorization and Reasoning

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

PSYC 4991 Directed Study Research

Linguistics/Psychology Combined-Major Requirements

Code	Title	Hours
Experiential Learning		
Complete a directed study, two junior/senior honors project courses, or a study abroad (not a Dialogue):		
LING 4991	Directed Study Research	4
LING 4996	Experiential Education Directed Study	4
LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	8
PSYC 4970 and PSYC 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	8
PSYC 4991	Directed Study Research	4
Integrative Course		
PSYC 3464	Psychology of Language	4

Linguistics and Psychology Combined-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
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

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	
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 English, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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	Phonetics and Phonology	4
LING 3450	Syntax	4
Linguistics Electives		
Complete three of the following:		12
DEAF 2700	ASL Linguistics	
LING 3402	African-American English	
LING 3424	Morphology	
LING 3428	African Languages	
LING 3430	Applied Linguistics	
LING 3432	Romance Linguistics	
LING 3434	Bilingualism	
LING 3436	Structure of Spanish	
LING 3438	Structure of French	
or LANG 3438	Structure of French	
LING 3442	Sociolinguistics	
LING 3444	Linguistics in Education	
LING 3448	Issues in Linguistics	
LING 3452	Semantics	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 3460	Historical Linguistics	
LING 4654	Seminar in Linguistics	
PHIL 1215	Symbolic Logic	
PHIL 4540	Philosophy of Language	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	
PSYC 4520	Language and the Brain	
PSYC 4522	Psychology of Reading	
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
Literature Backgrounds		
ENGL 1700	Global Literature to 1500	4

Literature Survey Courses

Complete three of the following:		12
AFAM 3664	Black Poetry and the Spoken Word	
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 1501	British Literature 1800 to Present	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text Abroad	
ENGL 3488	Film and Text	
ENGL 3572	Fantasy	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 4684	Topics in Postcolonial Literature	
ENGL 4688	Topics in Comparative Textual Studies	

Shakespeare Course

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	

Literature before 1800

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 2200	The Bible	
ENGL 2210	Medieval British Literature	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	
ENGL 2230	Sixteenth-Century British Literature	
ENGL 2240	Seventeenth-Century British Literature	
ENGL 2250	Eighteenth-Century British Literature	
ENGL 2295	Revolution and Revolt in Early American Literature	
ENGL 2296	Early African-American Literature	
ENGL 3607	Chaucer	
ENGL 3618	Milton	

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 4020	Topics in 17th- and 18th-Century Literatures
-----------	----------------------------------------------

Literature after 1800

Complete one of the following: 4

CINE 2394	Modern Film and Global Culture
-----------	--------------------------------

ENGL 2260	Romantic Poetry
-----------	-----------------

ENGL 2270	Victorian Literature
-----------	----------------------

ENGL 2280	Nineteenth-Century British Fiction
-----------	------------------------------------

ENGL 2330	The American Renaissance
-----------	--------------------------

ENGL 2340	American Realism
-----------	------------------

ENGL/JWSS 2610	Contemporary Israeli Literature and Art Abroad
----------------	------------------------------------------------

ENGL 3619	Emerson and Thoreau
-----------	---------------------

ENGL 3720	Nineteenth-Century Major Figure
-----------	---------------------------------

ENGL 4040	Topics in 19th-Century Literatures
-----------	------------------------------------

ENGL 2290	Twentieth-Century British Literature
-----------	--------------------------------------

ENGL 2291	Major Twentieth-Century British Novelists
-----------	-------------------------------------------

ENGL 2355	Modern American Literature
-----------	----------------------------

ENGL 2360	Modern African-American Literature
-----------	------------------------------------

ENGL 2410	Contemporary American Literature
-----------	----------------------------------

ENGL 2440	The Modern Bestseller
-----------	-----------------------

ENGL 2600	Irish Literary Culture Abroad
-----------	-------------------------------

ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
----------------	------------------------------------------------------------------

ENGL 3730	Twentieth- and Twenty-First-Century Major Figure
-----------	--------------------------------------------------

ENGL 4060	Topics in 20th- and 21st-Century Literatures
-----------	----------------------------------------------

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	Experiential Education Directed Study
-----------	---------------------------------------

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 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
LING 1150	4	LING 2350	4	Vacation	0	Vacation	0
ENGW 1111	4	Literature survey course	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 1700	4	Linguistics elective	4				
Foreign language core course	4	Shakespeare 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	LING 3422	4	Elective	4	Co-op	0
		Literature survey course	4	Elective	4		
		Literature before 1800	4				
		Elective					
		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		
		Literature survey course	4				
		Literature after 1800	4				
		Elective					
	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

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

Required Courses

LING 1150	Introduction to Language and Linguistics	4
LING 2350	Linguistic Analysis	4
LING 3422 or LING 3450	Phonetics and Phonology Syntax	4

Elective Courses

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>)

Geoffrey C. Trussell, PhD

Professor and Chair

Rebeca Rosengaus, PhD

Associate Professor and Associate Chair

14 Holmes Hall
617.373.3176
617.373.4378 (fax)

Mark R. Patterson, Professor, m.patterson@northeastern.edu

Richard Bailey, Professor, r.bailey@northeastern.edu

Jonathan H. Grabowski, Associate Professor,
j.grabowski@northeastern.edu

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. Northeastern's emphasis on experiential, off-campus learning in addition to classroom learning is

designed to help our students to become well grounded in their field of study and to work effectively with others to study and address real problems, as part of their undergraduate program.

Our Bachelor of Science in Environmental Science degree is organized for students who seek a comprehensive understanding of the scientific implications of environmental issues and the ways that environmental scientists from a range of disciplines can approach their solution. Every student has an opportunity to develop core knowledge in geology, biology, chemistry, and mathematics early in the program. Students then select one of 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. 482) offered by the Environmental Studies Program (p. 482).)

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, twelve 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 seventy 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>).

Marine Studies Minor

The marine studies minor is designed to provide a structured program for students with an interest in the marine environment. The program allows an emphasis in either the scientific or the social science/humanistic study of the oceans.

The program draws on courses throughout the university and is affiliated with several outstanding, specialized marine programs. These include the SEA Semester Program run by the Sea Education Association, which provides a rigorous program in marine sciences at Woods Hole, Massachusetts, and aboard one of its tall ships for training cruises in the Caribbean, Pacific, or Labrador Sea. In addition to the cruises designed to explore the broad range of aspects of marine science and culture, there are specialized cruises that add a focus on Caribbean studies, Pacific island culture, and marine environmental issues. Students may also take specialized courses in marine topics through the Marine Studies Consortium.

For more information, contact the director of marine studies, Professor Rebeca Rosengaus at 617.373.7032 or at r.rosengaus@northeastern.edu.

Massachusetts Bay Marine Studies Consortium

Northeastern University students may take classes at the Massachusetts Bay Marine Studies Consortium. The consortium's course offerings are interdisciplinary and seek to bridge academic disciplines and current concerns in the marine world. For more 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)

- Environmental Studies (<http://catalog.northeastern.edu/undergraduate/science/marine-environmental/environmental-studies-ba>)
- Environmental Studies and History (<http://catalog.northeastern.edu/undergraduate/science/marine-environmental/environmental-studies-history-ba>)
- Environmental Studies and International Affairs (<http://catalog.northeastern.edu/undergraduate/science/marine-environmental/environmental-studies-international-affairs-ba>)
- Environmental Studies and Philosophy (<http://catalog.northeastern.edu/undergraduate/science/marine-environmental/environmental-studies-philosophy-ba>)
- Environmental Studies and Political Science (<http://catalog.northeastern.edu/undergraduate/science/marine-environmental/environmental-studies-political-science-ba>)

Bachelor of Science (BS)

- Environmental Science (p. 494)
- Marine Biology (p. 499)
- Computer Science and Environmental Science (p. 505)
- Environmental Geology and Chemistry (p. 507)
- Environmental Studies and Economics (<http://catalog.northeastern.edu/undergraduate/science/marine-environmental/environmental-studies-economics-bs>)
- Information Science and Environmental Science (p. 509)

Minors

- Environmental Geology (p. 511)
- Environmental Science (p. 510)
- Environmental Studies (<http://catalog.northeastern.edu/undergraduate/science/marine-environmental/environmental-studies-minor>)
- Geology (p. 511)
- Marine Biology (p. 512)
- Marine Studies (p. 512)

Environmental 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.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Environmental Science Major Requirements

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 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	5
---------------------------------------------	------------------------------------------------------------------------------	---

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

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*Required Marine Science Courses*

ENVR 3125	Global Oceanic Change	4
ENVR 4106	Coastal Processes	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 or BIOL 1111 and BIOL 1112	Foundations of Biology and Lab for BIOL 1107 General Biology 1 and Lab for BIOL 1111
-------------------------------------------------------------	-----------------------------------------------------------------------------------------------

BIOL 5100	Biology Colloquium
-----------	--------------------

EEMB 2400	Introduction to Evolution
-----------	---------------------------

EEMB 2410 and EEMB 2411	Fish Biology and Ecology and Lab for EEMB 2410
----------------------------	---------------------------------------------------

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 3302 and ENVR 3303	Introduction to Remote Sensing and Lab for ENVR 3302
----------------------------	---------------------------------------------------------

ENVR 4505	Wetlands
-----------	----------

ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242
----------------------------	----------------------------------------------

Marine Studies Consortium Courses (unrestricted)

MARS 3210	Marine Mammals
-----------	----------------

MARS 3200	Marine Studies
-----------	----------------

MARS 3300	The Ocean World
-----------	-----------------

MARS 3305	Maritime History of New England
-----------	---------------------------------

MARS 3310	Water Resources Policy and Management
-----------	------------------------------------------

MARS 3325	Coastal Zone Management
-----------	-------------------------

MARS 3430	Biology of Whales
-----------	-------------------

MARS 4500	Advanced Seminar in Marine Studies
-----------	------------------------------------

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	
<i>SEA Semester restricted courses</i>		
ENVR 3103	Oceanographic Field Methods	
ENVR 3104	Advanced Oceanographic Field Methods	
ENVR 3105	Practical Oceanographic Research	

CONCENTRATION IN CONSERVATION SCIENCE*Required Conservation Science Courses*

BIOL 1107 and BIOL 1108 or BIOL 1111 and BIOL 1112	Foundations of Biology and Lab for BIOL 1107 General Biology 1 and Lab for BIOL 1111	5
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 and BIOL 3402	Comparative Vertebrate Anatomy and	
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 5270	Environmental Protection and Management	
CIVE 5271	Solid and Hazardous Waste Management	
EEMB 2290	Ecology and Evolution of Behavior	
EEMB 2400	Introduction to Evolution	
EEMB 2610 and EEMB 2611	Plant Biology and Lab for EEMB 2610	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	

EEMB 2618 and EEMB 2619	Vertebrate Zoology and Lab for EEMB 2618	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
EEMB 3120	Physical Biology of Marine Organisms	
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	
EEMB 5560 and EEMB 5561	Entomology and Lab for EEMB 5560	
EEMB 5562 and EEMB 5563	Herpetology and Lab for EEMB 5562	
EEMB 5564 and EEMB 5565	Ornithology and Lab for EEMB 5564	
EEMB 5566 and EEMB 5567	Mammalogy and Lab for EEMB 5566	
EEMB 5568 and EEMB 5569	Wildlife Biology and Lab for EEMB 5568	
ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	
ENVR 3125	Global Oceanic Change	
ENVR 3200	Water Resources	
ENVR 4106 and ENVR 4107	Coastal Processes and Lab for ENVR 4106	
ENVR 4504	Environmental Pollution	
ENVR 4505	Wetlands	
ENVR 4515	Sustainable Development	
ENVR 4563	Advanced Spatial Analysis	
ENVR 5190	Soil Science	
ENVR 5210	Environmental Planning	
ENVR 5250	Geology and Land-Use Planning	
ENVR 5400	Marine Science Policy and Ethics	
ENVS 2342	Eating and the Environment	

CONCENTRATION IN GEOSCIENCE*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
<i>Physics 2</i>		
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 3000 and ENVR 3001	Igneous Petrology and Volcanology and Lab for ENVR 3000
ENVR 3125	Global Oceanic Change
ENVR 3418	Geophysics
ENVR 4106 and ENVR 4107	Coastal Processes and Lab for ENVR 4106
ENVR 4504	Environmental Pollution
ENVR 4505	Wetlands
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
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		

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			
<hr/>				
	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			
<hr/>				
	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		
<hr/>				
	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			
<hr/>				
	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		
<hr/>				
	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		
<hr/>				
	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
<hr/>		
	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			
<hr/>				
	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			
<hr/>				
	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			
<hr/>				
	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			
<hr/>				
	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
<hr/>		
	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		

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
CHEM 1214 and CHEM 1215 and CHEM 1216	5	CHEM 2311 and CHEM 2312	5	Vacation	0
Co-op	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
Co-op	0	Concentration course	4	Elective	4
		Elective	4	Elective	4
		Elective	4		
		Elective	4		
	0		16	8	0
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	ENGW 3303, 3307, or 3315	4	Elective	4
		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

Marine Biology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Breadth Courses For Marine Biology

Mathematics

MATH 1251	Calculus and Differential Equations for Biology 1	4
or MATH 1241	Calculus 1	

Biostatistics

ENVR 2500 and ENVR 2501	Biostatistics and Lab for ENVR 2500	5
----------------------------	----------------------------------------	---

General Chemistry 1

CHEM 1211 and CHEM 1212 and CHEM 1213	General Chemistry 1 and Lab for CHEM 1211 and Recitation for CHEM 1211	5
---------------------------------------------	------------------------------------------------------------------------------	---

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	

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 Requirements

Introduction to College

BIOL 1000	Biology 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	

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

EEMB 2290	Ecology and Evolution of Behavior	
EEMB 2410 and EEMB 2411	Fish Biology and Ecology and Lab for EEMB 2410	
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 5130 and EEMB 5131	Ecological Dynamics and Lab for EEMB 5130	
EEMB 5506	Biology and Ecology of Fishes	
EEMB 5508 and EEMB 5509	Marine Birds and Mammals and Lab for EEMB 5508	
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	
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 4106	Coastal Processes	
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	
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 or ENGW 3315	Advanced Writing in the Sciences Interdisciplinary Advanced Writing in the Disciplines	4
---------------------------	----------------------------------------------------------------------------------------------	---

Biology Capstone

Complete one of the following: 1-4

BIOL 4701	Biology Capstone	
ENVR 4900	Earth and Environmental Science Capstone	
ENVR 4997	Senior Thesis	

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
	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
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 5 EESC 2000 1
and
PHYS 1146

	PHYS 1147 and PHYS 1148	5		
		15	16	0

Year 3

Fall **Hours Spring** **Hours Summer 1** **Hours Summer 2** **Hours**
Co-op 0 EEMB 5516 5 Vacation 0 Vacation 0
and
EEMB 5517

	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 5 Vacation 0 Co-op 0
and
CHEM 2312

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, 1-4
ENVR 4900,
or ENVR
4997

	Elective	4		
--	----------	---	--	--

	Elective	4		
--	----------	---	--	--

	Elective	4		
--	----------	---	--	--

0 13-16

Total Hours: 133-136

Computer Science and Environmental 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.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
------	-------	-------

Computer Science Overview

CS 1200	Computer Science/Information Science Overview 1	1
---------	-------------------------------------------------	---

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

Computer Science Fundamental Courses

A grade of C- or higher is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
------------------------	---------------------------------------------------	---

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 3200	Database Design	4
---------	-----------------	---

CS 3500	Object-Oriented Design	4
---------	------------------------	---

CS 3800	Theory of Computation	4
---------	-----------------------	---

CS 4500	Software Development	4
---------	----------------------	---

CS 4800	Algorithms and Data	4
---------	---------------------	---

Computer Science Senior Seminar

CS 4000 or THTR 1170	Senior Seminar The Eloquent Presenter	1
-------------------------	------------------------------------------	---

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	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 3400	Field Geology
ENVR 3410	Environmental Geochemistry
ENVR 4106 and ENVR 4107	Coastal Processes and Lab for ENVR 4106
ENVR 4504	Environmental Pollution
ENVR 4505	Wetlands
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 5248	Marine Geology
ENVR 5270 and ENVR 5271	Glacial and Quaternary History and Lab for ENVR 5270

Additional Requirements

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

Code	Title	Hours
------	-------	-------

Complete one of the following: 4

PHIL 1145	Technology and Human Values
SOCL 1280	The Twenty-First-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
---------	-----------------------------------------------

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 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

137 total semester hours required

Plan of Study

Five 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 Vacation	0 Vacation	0
CS 1800 and CS 1801	4 CS 2800 and CS 2801	5		
CS 2500 and CS 2501	5 Elective	4		
ENVR 1200 and ENVR 1201	5 Elective	4		
ENGW 1111	4			
19		18		0

Year 2				
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 Co-op	0
CS 3500	4 CS 1210	1		

Elective	4	CS 4800	4		
Elective	4	Elective	4		
		Elective	4		
	17		18	0	0
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	CS 3200	4	Vacation	0
		MATH 1251	4		
		Elective	4		
		Elective	4		
	0		16	0	0
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	CS 3800	4	Vacation	0
		ENGW 3302	4		
		MATH 1252	4		
		Elective	4		
	0		16	0	0
Year 5					
Fall	Hours	Spring	Hours		
MATH 3081	4	CS 4000	1		
SOCL 4528	4	CS 4500	4		
Elective	4	ENVR 4900	1		
Elective	4	Elective	4		
		Elective	4		
		Elective	4		
	16		18		
Total Hours: 138					

Environmental Geology and Chemistry, BS

Jonathan Grabowski, PhD

Associate Professor
Marine Science Center, Nahant
781.581.370 x337

Michael P. Pollastri, PhD

Associate Professor and Interim Chair
102 Hurtig Hall
617.373.2822

Danielle Lynch, Undergraduate Administrative Officer,
dw.lynch@neu.edu, 617.373.3176

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Environmental Geology Breadth Courses

Code	Title	Hours
Mathematics		
MATH 1241	Calculus 1	4
MATH 1242	Calculus 2	4
Science Requirement		
Complete one of the following options:		10
<i>Biology Option:</i>		
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	
<i>Physics Option:</i>		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	

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 2 Intermediate or Advanced Electives from ENVR 2300 to ENVR 5999		8-10
---------------------------------------------------------------------------	--	------

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	
-----------	--------------	--

ENVR 5282		
-----------	--	--

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	5	CHEM 1214 and CHEM 1215	5	Vacation	0	Vacation	0
CHEM 1213		CHEM 1216					

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 3403 and CHEM 3404	5	CHEM 3521 and CHEM 3522	5	Co-op	0
-------	---	-------------------------	---	-------------------------	---	-------	---

		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 3431 and CHEM 3432	5
--	--	-------------------------	---

		Elective	4
--	--	----------	---

Elective	4
0	17

Total Hours: 136

Information Science and Environmental 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.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1

Computer Science Fundamental Courses

A grade of C– or higher is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	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

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 and Geology and Land-Use Planning	4

ENVR 4900	Earth and Environmental Science Capstone	1
or ENVR 4997	Senior Thesis	

Integrative Course

ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5
-------------------------	------------------------------------------------------	---

Environmental Science Electives

Complete three of the following:		12
ENVR 1202 and ENVR 1203	History of Earth and Life and Interpreting Earth History	
ENVR 3400	Field Geology	
ENVR 3410	Environmental Geochemistry	
ENVR 3418	Geophysics	
ENVR 4106 and ENVR 4107	Coastal Processes and Lab for ENVR 4106	
ENVR 4500 and ENVR 4501	Applied Hydrogeology and Lab for ENVR 4500	
ENVR 4504	Environmental Pollution	
ENVR 4505	Wetlands	
ENVR 5201	Geologic Field Seminar	
ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242	

Sustainability Focus Courses

PHIL 1180	Environmental Ethics	
Complete two of the following:		8
ECON 3423	Environmental Economics	
ENVR 4515	Sustainable Development	
ENVR 5202	Environmental Science Field Seminar Abroad	
HIST 3412	Global Environmental History	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
SOCL 1246	Environment and Society	

Additional Requirements

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

Code	Title	Hours
Complete one of the following:		4
PHIL 1145	Technology and Human Values	

SOCL 1280	The Twenty-First-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

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

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
- Employing Ethical Reasoning
- Writing in the First Year
- Advanced Writing in the Disciplines
- Writing-Intensive in the Major

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

Program Requirement

135 total semester hours required

Plan of Study

Five 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 Vacation	0 Vacation	0	
CS 1800 and CS 1801	4 CS 2800 and CS 2801	5			
CS 2500 and CS 2501	5 ENVR 1101	4			
ENGW 1111	4 IS 2000	4			
ENVR 1200 and ENVR 1201	5				
	19	18	0	0	

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CHEM 1211 and CHEM 1212 and CHEM 1213	5 ENVR 3300 and ENVR 3301	5 Vacation	0 Co-op	0
CS 3500	4 CS 1210	1		
IS 3500	4 CS 4800	4		
ENVR Elective	4 PHIL 1180	4		
	Elective	4		
	17	18	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CS 3200	4 Vacation	0 Co-op	0
	MATH 1251	4		
	IS 4800	4		
	ENVR Elective	4		
	0	16	0	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 ENVR 5210 or 5250	4 Vacation	0 Vacation	0
	ENGW 3302 or 3315	4		
	Sustainability Focus Course	4		
	Elective	4		
	0	16	0	0

Year 5

Fall	Hours Spring	Hours
ECON 1116	4 ECON 2350	4
Computing and Social Issues Course	4 ENVR Elective	4
Sustainability Focus Course	4 ENVR 4900 or 4997	1, 4
Elective	4 Elective	4
	16	13-16

Total Hours: 133-136

Environmental Science, Minor

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

Course Work

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
CHEM 2321 and CHEM 2322	Analytical Chemistry and Lab for CHEM 2321
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

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
EEMB 2618	Vertebrate Zoology
EEMB 5560	Entomology
EEMB 5562	Herpetology
EEMB 5564	Ornithology
EEMB 5566	Mammalogy
EEMB 5568	Wildlife Biology

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
ENVR 5280	
ENVR 5282	

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

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 Geology, Minor

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

Required Courses

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

Complete one ENVR course. 4

GPA Requirement

2.000 GPA required in the minor

Geology, Minor

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

Required Courses

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	Igneous Petrology and Volcanology and Lab for ENVR 3000	5

Geology Elective

Complete one ENVR course. 4

GPA Requirement

2.000 GPA required in the minor

Marine Biology, Minor

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

BIOL 1111 and BIOL 1112 or BIOL 1107 and BIOL 1108	General Biology 1 and Lab for BIOL 1111 Foundations of Biology and Lab for BIOL 1107	5
BIOL 1113 and BIOL 1114	General Biology 2 and Lab for BIOL 1113	5

Elective Courses

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

Breadth Course—Science

To provide breadth of knowledge, complete one additional science course in the BIOL, CHEM, ENVR, or PHYS subject areas or from the following: 4

PSYC 3458	Biological Psychology
PSYC 4510	Psychopharmacology

GPA Requirement

2.000 GPA required in the minor

Marine Studies, Minor

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

Required Courses

Complete four courses from the following. Two courses must be above the introductory level: 8-16

Humanities	
ENVR 2941	Ocean Science and Public Policy
ENVR 2942	Maritime History and Culture: The Caribbean
ENVR 2943	Marine Environmental History: The Caribbean
ENVR 3102	Maritime Studies
HIST 2232	History of Boston
MARS 3305	Maritime History of New England
MARS 3310	Water Resources Policy and Management
Sciences	
EEMB 1122	Physical Oceanography
EEMB 1123	Biological Oceanography
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 1121	Marine Resources
ENVR 3101	Nautical Science
ENVR 3100	Oceanography
ENVR 3103	Oceanographic Field Methods
ENVR 3104	Advanced Oceanographic Field Methods
ENVR 3105	Practical Oceanographic Research
ENVR 4106 and ENVR 4107	Coastal Processes and Lab for ENVR 4106
ENVR 4505	Wetlands
ENVR 5210	Environmental Planning

ENVR 5242 and ENVR 5243	Ancient Marine Life and Lab for ENVR 5242
ENVR 5244 and ENVR 5245	Sedimentation and Lab for ENVR 5244
ENVR 5248	Marine Geology
MARS 3200	Marine Studies
MARS 3210	Marine Mammals
MARS 3300	The Ocean World
MARS 3325	Coastal Zone Management
MARS 3430	Biology of Whales
MARS 4500	Advanced Seminar in Marine Studies

Marine-Related Skill

Complete one of the following:

ENVR 3101	Nautical Science
-----------	------------------

Certification in a skill such as scuba, by a Merchant Marine license, or by a comparable level of achievement determined by the marine studies advisor.

Marine-Related Independent Study

This requirement may be satisfied by producing a research product on a marine-related topic, either as part of another course or independently. Acceptance of product is at the discretion of the marine studies advisor.

GPA Requirement

2.000 GPA required in the minor

Mathematics

Website (<http://www.northeastern.edu/cos/mathematics>)

Christopher K. King, PhD

Professor and Chair

567 Lake Hall

617.373.2450

617.373.5658 (fax)

Solomon M. Jekel, Associate Professor and Head Advisor,
s.jekel@northeastern.edu

Mathematics is of ever-increasing importance to our society and everyday life. It has long been the language of science and technology and provides a rich source of methods for analyzing and solving problems encountered in the physical world. Today, mathematics is essential in virtually all fields of human endeavor, including business, the arts, and the social sciences.

The Bachelor of Arts degree requires at least eleven mathematics courses and two physics courses, in addition to the study of a foreign language; this program is appropriate for students who wish a broader liberal arts education. The Bachelor of Science degree requires at least fourteen mathematics courses and two physics courses but no foreign language study; it is more specialized, and it is recommended for those strongly interested in mathematics and science. The department also offers a minor degree in mathematics.

The major programs provide flexibility with elective courses. Students may take advantage of a range of interdisciplinary programs and may join a major in mathematics with one in such fields as computer science, physics, and biology.

Exceptional students are accepted into the Honors Program and have the option to enroll in honors sections of several of their mathematics courses. All math majors may benefit from co-op opportunities in the scientific and business communities in Boston and elsewhere.

Many of the mathematics courses that we offer use computers for visualization, modeling, and numerical approximation.

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.

Academic Progression Standards

Students who begin as freshman mathematics majors must, after the fourth semester, satisfy the following:

1. Have completed at least six of their required mathematics and physics courses
2. Have a grade average of C or better in the following courses:

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 2331	Linear Algebra	4
3. Have a grade-point average (GPA) of at least 2.000 in all required mathematics and physics courses

Students who transfer to the major must, after two semesters in the major, satisfy the following:

1. Have completed at least four of their required mathematics and physics courses
2. Have a GPA of at least 2.000 in all required mathematics and physics courses
3. Have grades of C or better in the following courses (if already taken):

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 2331	Linear Algebra	4

Students who fail to achieve the above conditions will be placed on departmental probation. Students who remain two consecutive semesters on departmental probation will be dismissed from the major.

Programs

Bachelor of Arts (BA)

- Mathematics (p. 514)

Bachelor of Science (BS)

- Mathematics (p. 515)
- Biology and Mathematics (p. 517)
- Computer Science and Mathematics (p. 518)
- Economics and Mathematics (p. 520)
- Graphic and Information Design and Mathematics (p. 521)
- Mathematics and Business Administration (p. 522)
- Mathematics and Physics (p. 525)

Dual Degrees

- Mathematics, BS/MS (p. 527)
- Computer Science and Mathematics, BS/MS (p. 526)

Minor

- Mathematics (p. 528)

Mathematics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language 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 Co-op and Experiential Learning Reflection Seminar 2 (MATH 4000).

Mathematics Major Requirements

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

Co-op Reflections

MATH 3000	Co-op and Experiential Learning Reflection Seminar 1	1
or MATH 4000	Co-op and Experiential Learning Reflection Seminar 2	

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.

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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Mathematics Major Grade Requirement

A grade of C or higher is required in all mathematics courses numbered 3000 and below and in Co-op and Experiential Learning Reflection Seminar 2 (MATH 4000).

Mathematics Major Requirements

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
or MATH 4000	Co-op and Experiential Learning Reflection Seminar 2	

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.

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 ENG 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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Biology Major Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000 or MATH 1000	Biology at Northeastern Mathematics at Northeastern	1
Required Biology		
<i>Foundations</i>		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
<i>Inquiries</i>		
BIOL 2299	Inquiries in Biological Sciences	4
<i>Genetics</i>		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
<i>Techniques</i>		
BIOL 2309	Techniques in Biology: An Inquiry- Based Lab	4
Chemistry		
<i>General Chemistry</i>		
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
<i>Organic Chemistry</i>		
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 2323 and BIOL 2324	and	5
----------------------------	-----	---

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	
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	
EEMB 2400	Introduction to Evolution	
EEMB 2610 and EEMB 2611	Plant Biology and Lab for EEMB 2610	
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	
EEMB 2618 and EEMB 2619	Vertebrate Zoology and Lab for EEMB 2618	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	

Mathematics Major Requirements

Code	Title	Hours
------	-------	-------

Calculus 1

MATH 1341 or MATH 1251	Calculus 1 for Science and Engineering Calculus and Differential Equations for Biology 1	4
---------------------------	---------------------------------------------------------------------------------------------	---

Calculus 2 and Calculus 3

MATH 1342 or MATH 1252	Calculus 2 for Science and Engineering Calculus and Differential Equations for Biology 2	4
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 or MATH 4000	Co-op and Experiential Learning Reflection Seminar 1 Co-op and Experiential Learning Reflection Seminar 2	1

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	

Advanced Writing in the Disciplines

ENGW 3307	Advanced Writing in the Sciences	4
-----------	----------------------------------	---

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 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**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1

Computer Science Fundamental Courses

A grade of C- or higher is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800 (Integrative course)	4
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 (Integrative course)	5

Computer Science Required Courses

CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4300	Computer Graphics (Integrative course) ¹	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

Computer Science Elective Courses

With advisor approval, directed study courses, project study course, and appropriate graduate courses may also be taken.

Complete two upper-division computer science courses from the following ranges:

CS 2600 to CS 7999 but not CS 5010

IS 2000 to IS 7999 but not IS 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	4

Mathematics Electives

Complete three courses from the following range:	12
MATH 3001 to MATH 4999 but not MATH 4000	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		
PHIL 1145	Technology and Human Values	4
SOCL 1280	The Twenty-First-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

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 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

Five Years, Three Co-ops in Summer 2/Fall

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800	4	CS 2510	4	Vacation	0	Vacation	0
CS 2500	4	CS 2511	1				
CS 2501	1	CS 2800	4				
MATH 1341	4	CS 2801	1				
ENGW 1111	4	Elective	4				
CS 1200	1	MATH 1342	4				
CS 1801	0						
		18			18		

Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	CS 4800	4	Vacation	0	Co-op	0
MATH 2321	4	MATH 2331	4				
MATH 2341	4	MATH 3081	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	0	CS 3800	4	Elective	4	Co-op	0
		CS 4300	4	Elective	4		
		MATH 3175	4				
		MATH 3000	1				
		ENGW 3302	4				
0		17		8		0	

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	CS 4500	4	Elective	4	Co-op	0
		MATH 3527	4	Elective	4		
		MATH undergraduate elective	4				
		CS undergraduate elective	4				
0		16		8		0	

Year 5

Fall	Hours	Spring	Hours
Co-op	0	SOCL 4528	4
		CS undergraduate elective	4
		CS 4000	1
		MATH undergraduate elective	4
		MATH undergraduate elective	4
0		17	

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	4	CS 2510	4	Vacation	0	Vacation	0
CS 2500	4	CS 2511	1				
CS 2501	1	CS 2800	4				
MATH 1341	4	CS 2801	1				
ENGW 1111	4	Elective	4				
CS 1200	1	MATH 1342	4				
CS 1801	0						
18		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						

Elective	4
CS 1210	1
17	
0	
0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 4800	4	Co-op	0	Co-op	0	Elective	4
MATH 2331	4					Elective	4
MATH 3081	4						
MATH 3000	1						
Elective	4						
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	4	SOCL 4528	4
MATH 3175	4	CS undergraduate elective	4
MATH undergraduate elective	4	CS 4000	1
CS undergraduate elective	4	MATH undergraduate elective	4
		MATH undergraduate elective	4
16		17	

Total Hours: 135

Economics and Mathematics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Economics Requirements

Code	Title	Hours
	Introduction to College	

ECON 1000 or MATH 1000	Economics at Northeastern Mathematics at Northeastern	1
---------------------------	----------------------------------------------------------	---

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 3560	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:

ECON 1115	Principles of Macroeconomics
ECON 1116	Principles of Microeconomics
ECON 2315	Macroeconomic Theory
ECON 2316	Microeconomic Theory
ECON 3560	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

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5

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 and ARTG 2251	Typography 1 and Type Tools	5
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: 4-5

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools	
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools	
ARTD 2380 and ARTD 2381	Video Basics and Video Tools	
ARTG 2260	Programming Basics	
ARTF 1120	Observational Drawing	
ARTF 1121	Conceptual Drawing	
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools	
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools	
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools	
ARTG 3351	Time-Based Design	
ARTG 3352	Interaction Design Basics	
ARTG 3450	Graphic Design 2	
ARTG 3460	Identity and Brand Design	
ARTG 3461	Service Design	
ARTG 3700	Interaction Design 2: Mobile	
ARTG 4551	Design Degree Project 2	
ARTG 4552	Information Design 2	
ARTG 4553	Environmental 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 Electives		
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 83 semester hours in the major.

Program Requirement

128 total semester hours required

Mathematics and Business Administration, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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		
<i>Option 1 (Recommended)</i>		
MATH 2321	Calculus 3 for Science and Engineering	
MATH 2341	Differential Equations and Linear Algebra for Engineering	
<i>Option 2</i>		
MATH 2321	Calculus 3 for Science and Engineering	
MATH 2331	Linear Algebra	
Co-op Reflections		
MATH 3000	Co-op and Experiential Learning Reflection Seminar 1	1

or MATH 4000 Co-op and Experiential Learning Reflection Seminar 2

Mathematics Electives

Complete three courses in the range MATH 3001 to MATH 5999. The following courses are recommended:

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

Additional Requirements

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	

Integrative Course

Note: Financial Risk Management (FINA 4512) also counts toward the finance concentration.

Finance Concentration

Code	Title	Hours
Finance Requirements		
FINA 3301	Corporate Finance	4
FINA 3303	Investments	4
FINA 4512	Financial Risk Management	4
Finance Electives		
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 4518	Risk Management and Insurance
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. 523).

- Accounting
- Entrepreneurship and Innovation
- Interdisciplinary Business
- Management
- Management Information Systems
- Marketing
- Supply Chain Management

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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	

ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

CONCENTRATION IN MANAGEMENT

Code	Title	Hours
Required Course		
MGMT 4501	Skills for Managerial Success	4
Electives		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPATH Requirements

All undergraduate students are required to complete the NUPATH Requirements (p. 34).

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
or MATH 4000	Co-op and Experiential Learning Reflection Seminar 2	
Mathematics Elective		
Complete one course from 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 from 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
	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 Mathematics, BS/MS

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C- or higher is required in Computer Science Fundamental courses.		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800 (Integrative course)	4
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 (Integrative course)	5
Computer Science Required Courses		
CS 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4300	Computer Graphics (Integrative course)	4
CS 4500	Software Development	4
Computer Science Senior Seminar		
CS 4000	Senior Seminar	1

or THTR 1170 The Eloquent Presenter

Computer Science Elective Courses

With advisor approval directed study courses, project study courses, and appropriate graduate courses may also be taken.

Complete two upper division computer science courses in the following ranges: 8

CS 2600 to CS 7999 but not CS 5010

IS 2000 to IS 7999 but not IS 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 (Integrative course)	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	4
-----------	---------------	---

Mathematics Electives

Complete three courses in the following range: 12

MATH 3001 to MATH 4999 but not MATH4000

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Graduate Course Work To Be Taken As An Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Code	Title	Hours
------	-------	-------

Master's-Level Required Courses

CS 5400	Principles of Programming Language	4
---------	------------------------------------	---

CS 5600	Computer Systems	4
---------	------------------	---

CS 5800	Algorithms	4
---------	------------	---

Master's-Level Computer Science Elective Course

Complete one course in the following range: 4

CS 5000 to CS 7999 but not CS 5010

Entrance Requirements

- Evaluation for entrance may be requested after a minimum of 3 semesters of CCIS coursework.
- The GPA in CCIS courses must be at least 3.25.
- The overall GPA must be at least 3.25.
- Requests for entrance to the BS/MS can be via email to advising@ccs.neu.edu. If requesting via email, include your name, ID, and which BS/MS program you wish to enter.

Computing and Social Issues

Code	Title	Hours
Complete one of the following: 4		
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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 six general electives.		24

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 Requirements

133 total semester hours required for the bachelor's degree

Mathematics, BS/MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree.

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

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Mathematics Major Grade Requirement

A grade of C or higher is required in all mathematics courses numbered 3000 and below and in Co-op and Experiential Learning Reflection Seminar 2 (MATH 4000).

Mathematics Major Requirements

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
or MATH 4000	Co-op and Experiential Learning Reflection Seminar 2	

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

MATH 4025	Applied Mathematics Capstone	4
MATH 5131	Introduction to Mathematical Methods and Modeling	4
MATH 4020	Research Capstone	4

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.

Complete three general electives numbered 3000 or above.	12
----------------------------------------------------------	----

Graduate Courses taken as an Undergraduate Student

Students in the BS/MS program typically take two required courses and two electives toward the graduate Mathematics degree while an undergraduate student. These courses may be allowed to fulfill undergraduate requirements.

Complete four of the following	16
--------------------------------	----

Required Courses

MATH 5101	Analysis 1: Functions of One Variable	
MATH 5102	Analysis 2: Functions of Several Variables	
MATH 5111	Algebra 1	
MATH 5112	Algebra 2	

Graduate Electives

MATH 5131	Introduction to Mathematical Methods and Modeling (may double count as the undergraduate capstone)	
MATH 5000 to MATH 7999		

Program Requirement

128 total semester hours required

3.000 GPA is required in all graduate courses

Mathematics, Minor

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

Required Courses

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

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

Complete two courses in the following range: 8
 MATH 3001 to MATH 4699 ¹

¹ Co-op and Experiential Learning Reflection Seminar 2 (MATH 4000) is excluded.

GPA Requirement

2.000 GPA required in the minor

Physics

Website (<http://www.northeastern.edu/cos/physics>)

Paul M. Champion, PhD

Professor and Chair

110 Dana Research Center
 617.373.2902
 617.373.2943 (fax)
physics@northeastern.edu

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.

BS IN PHYSICS

The physics program provides a strong foundation in classical and modern physics, including studies of the various physical phenomena including electromagnetism, dynamics, building blocks of matter, energy, and radiation.

BS IN BIOMEDICAL PHYSICS

The biomedical physics program seeks to understand the role of physical processes occurring on molecular, cellular, or macroscopic scales; in vital biological functions, ranging from the interaction of chemicals with

DNA, to the extraction of oxygen from red blood cells, to the generation of complex electrical signals in the brain and nervous system; and physical principles of medical devices. The biomedical physics program also offers a premed (prehealth) specialized track.

BS IN APPLIED PHYSICS

The applied physics BS degree is a flexible, interdisciplinary-oriented program designed to provide students with a solid background in basic physics, in conjunction with the opportunity to sample courses from a wide range of disciplines, including engineering, biology, chemistry, math, environmental studies, and computer science. This program seeks to enable students to prepare for a variety of careers in, for example, nanotechnology, a medical field, environmental research, or even finance.

BS/MS IN APPLIED PHYSICS AND ENGINEERING

Offered jointly by the Department of Physics and the Department of Electrical and Computer Engineering (ECE), the program provides strong interdisciplinary training in physics, math, and electrical engineering to achieve a BS degree in applied physics and take graduate courses in ECE in the fourth and fifth years that lead directly to an MS degree in electrical engineering.

BS/PHD IN PHYSICS

The physics BS/PhD program allows Northeastern undergraduate physics majors to continue on to a PhD in physics. The program uses undergraduate course sharing to enter the research phase of the PhD program approximately one year early relative to the traditional entering PhD students. Undergraduate students who have completed a research co-op in the department may also choose to continue that research, allowing them to effectively start their PhD research while undergraduates.

COMBINED MAJORS

Students also have the opportunity to combine physics with another discipline through a combined major. Current combined majors with physics include chemical engineering, computer engineering, electrical engineering, mechanical engineering, computer science, environmental geology, geology, mathematics, and philosophy.

RESEARCH OPPORTUNITIES FOR UNDERGRADUATES

Students are encouraged to participate in the excitement of cutting-edge research in particle physics, biophysics, and nanotechnology with world-renowned faculty.

Academic Progression Standards

Students may not continue as physics majors beyond the end of the sophomore year unless the following courses or equivalent courses are successfully completed:

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 2305	Thermodynamics and Statistical Mechanics	4
PHYS 2371	Electronics	3
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

Note: The following courses may be taken in place of PHYS 1161, PHYS 1162, PHYS 1165, and PHYS 1166:

PHYS 1151 Physics for Engineering 1
and PHYS 1152 and Lab for PHYS 1151
and PHYS 1153 and Interactive Learning Seminar for
PHYS 1151

PHYS 1155 Physics for Engineering 2
and PHYS 1156 and Lab for PHYS 1155
and PHYS 1157 and Interactive Learning Seminar for
PHYS 1155

A minimum grade-point average of 2.500 must be achieved in these courses to remain in the major.

Students may not graduate from the physics program unless all required physics, math, and science courses are passed with a GPA of 2.500 or more. Further, no more than two grades of D+ or lower may be counted toward the graduation requirements.

Programs

Bachelor of Science (BS)

- Physics (p. 530)
- Applied Physics (p. 534)
- Biomedical Physics (p. 539)
- Computer Science and Physics (p. 544)
- Mathematics and Physics (p. 547)
- Physics and Music with Concentration in Music Composition and Technology (p. 548)
- Physics and Philosophy (p. 549)

Bachelor of Science in Chemical Engineering (BSCHE)

- Chemical Engineering and Physics (p. 550)

Bachelor of Science in Computer Engineering (BSCompE)

- Computer Engineering and Physics (p. 552)

Bachelor of Science in Electrical Engineering (BSEE)

- Electrical Engineering and Physics (p. 554)

Bachelor of Science in Mechanical Engineering (BSME)

- Mechanical Engineering and Physics (p. 556)

Dual Degrees

- Physics, BS/MS (p. 558)
- Applied Physics/Engineering, BS/MS (p. 559)
- Physics, BS/PhD (p. 560)

Minor

- Physics (p. 560)

Physics, 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. 38).

5 NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Breadth Courses for Physics

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

GE 1111	Engineering Problem Solving and Computation	4
	or PHYS 1130 Computing, Data, and Science	

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 Requirements

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.

Senior Capstone

PHYS 5318	Principles of Experimental Physics	4
-----------	------------------------------------	---

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 GE 1111	4 Vacation	Vacation	
ENGW 1111	4 MATH 1342	4		
MATH 1341	4 PHYS 1165	4		
PHYS 1161	4 PHYS 1166	1		
PHYS 1162	1 PHYS 1167	0		
PHYS 1163	0 Elective	4		
Elective	4			
				0
				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			
				0
				17
				17
				0
				0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	PHYS 3601 ⁵	4 PHYS 3600 ⁴	4 Co-op	
	PHYS 3602 ⁶	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 5115 ⁸	4 MATH 3081	4 Co-op	
	ENGW 3307	4 Elective	4	
	Technical elective	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 GE 1111	4 MATH 2321	4 MATH 2331	4
ENGW 1111	4 MATH 1342	4 Elective	4 Elective	4
MATH 1341	4 PHYS 1165	4		
PHYS 1161	4 PHYS 1166	1		
PHYS 1162	1 PHYS 1167	0		
PHYS 1163	0 Elective	4		
Elective	4			
				8
				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	

532 *Physics, BS*

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
	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	GE 1111	4	Vacation
ENGW 1111	4	MATH 1342	4	0
MATH 1341	4	PHYS 1165	4	
PHYS 1161	4	PHYS 1166	1	
PHYS 1162	1	PHYS 1167	0	
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
PHYS 2371 ³	3		PHYS 2305 ²	4
PHYS 2372 ³	1		PHYS 3600 ⁴	4
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 3601 ⁵	4	Co-op	0	Co-op
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
PHYS 5115 ⁸	4		0	Vacation
Elective	4			0
Elective	4			
	16	0	0	0

Year 5

Fall	Hours Spring	Hours
PHYS 3603 ⁷	4	PHYS 5318 ⁹
ENGW 3315	4	PHYS advanced elective
Technical elective	4	Technical elective
Elective	4	Elective
	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
PHYS 1161	4	PHYS 1166	1	Elective
PHYS 1162	1	PHYS 1167	0	4
PHYS 1163	0	MATH 1342	4	MATH 2341
MATH 1341	4	GE 1111	4	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
PHYS 2371 ³	3			Elective
PHYS 2372 ³	1			4
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
PHYS 3603 ⁷	4			MATH 3081
Elective	4			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 GE 1111	4 Vacation	0 Vacation	0
ENGW 1111	4 MATH 1342	4		
MATH 1341	4 PHYS 1165	4		
PHYS 1161	4 PHYS 1166	1		
PHYS 1162	1 PHYS 1167	0		
PHYS 1163	0 Elective	4		
Elective	4			
		18	17	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

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

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

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 GE 1111	4 MATH 2321	4 MATH 2331	4
ENGW 1111	4 MATH 1342	4 Elective	4 Elective	4
MATH 1341	4 PHYS 1165	4		
PHYS 1161	4 PHYS 1166	1		
PHYS 1162	1 PHYS 1167	0		
PHYS 1163	0 Elective	4		
Elective	4			
		18	17	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

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

Year 4

Fall	Hours Spring	Hours
Co-op	PHYS 5318 ⁹	4
	PHYS advanced elective	4
	Technical elective	4
	Elective	4
		0

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 GE 1111	4 Vacation	Vacation	
ENGW 1111	4 MATH 1342	4		
MATH 1341	4 PHYS 1165	4		
PHYS 1161	4 PHYS 1166	1		
PHYS 1162	1 PHYS 1167	0		

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	Co-op	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			
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	Co-op	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	Co-op	Vacation	
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 3307	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 MATH 1342	4		
MATH 1341	4 GE 1111	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 spring² PHYS 2305 offered every spring and summer 2 (even years)³ PHYS 2371/2372 offered every fall⁴ PHYS 3600 offered every summer 1 and summer 2⁵ PHYS 3601 offered spring (even years) and fall (odd years)⁶ PHYS 3602 offered every fall and spring⁷ PHYS 3603 offered fall (even years) and summer 1 (odd years)⁸ PHYS 5115 offered every fall and spring⁹ PHYS 5318 offered every spring**Applied Physics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Breadth Courses**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

GE 1111	Engineering Problem Solving and Computation	4
or PHYS 1130	Computing, Data, and Science	

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 Requirements**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 5114	Physics of Advanced Materials	
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	
or PHYS 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
-----------	------------------------------------	---

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	MATH 1342	4
ENGW 1111	4	GE 1111	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	MATH 1342	4
MATH 1341	4	GE 1111	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	0
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	0	
	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	MATH 1342	4				
MATH 1341	4	GE 1111	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
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 MATH 1342	4		
MATH 1341	4 GE 1111	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
PHYS 3603 ⁶	4		Technical elective	4
ENGW 3307	4			
Technical elective	4			
	16	0	0	8

Year 4

Fall	Hours Spring	Hours
Technical elective	4 PHYS 5318 ⁷	4
Technical Elective	4 PHYS advanced elective	4
Elective	4 PHYS advanced elective	4
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 MATH 1342	4		
ENGW 1111	4 GE 1111	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

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	PHYS 3602 ⁵	4	PHYS 3600 ⁴	4
	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
		PHYS advanced elective	4	Elective
		PHYS advanced elective	4	
		Technical elective	4	
	0	16	8	0

Year 5

Fall	Hours Spring	Hours
Co-op	0	PHYS 5318 ⁷
		PHYS advanced elective
		Technical elective
		Elective
	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
PHYS 1161	4	PHYS 1166	1	Elective
PHYS 1162	1	PHYS 1167	0	4
PHYS 1163	0	MATH 1342	4	
MATH 1341	4	GE 1111	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
PHYS 2371 ³	3	PHYS 3602 ⁵	4	PHYS 3603 ⁶
			4	Co-op

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

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	ENGW 3307	4	Technical elective	4
	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
PHYS 1161	4	PHYS 1166	1	0
PHYS 1162	1	PHYS 1167	0	Vacation
PHYS 1163	0	MATH 1342	4	
MATH 1341	4	GE 1111	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
PHYS 2371 ³	3		0	PHYS 3600 ⁴
PHYS 2372 ³	1			MATH 2341
MATH 2321	4			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
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 MATH 1342	4		
MATH 1341	4 GE 1111	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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Breadth Courses for Biomedical Physics Major

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

GE 1111	Engineering Problem Solving and Computation	4
or PHYS 1130	Computing, Data, and Science	

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 Requirements**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.

PHYS 4996	Experiential Education Directed Study	4
-----------	---------------------------------------	---

Senior Capstone

PHYS 5318	Principles of Experimental Physics	4
-----------	------------------------------------	---

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:

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 2323 and BIOL 2324	and	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.

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 GE 1111	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 GE 1111	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

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0	PHYS 4621 ¹⁰	4	PHYS 3603 ⁷
		4	4	Co-op
		PHYS 4651 ¹²	4	Elective
		4	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	4	MATH 2341
		PHYS 1161	4	PHYS 1166
		1	Elective	4
		PHYS 1162	1	PHYS 1167
		0		
		PHYS 1163	0	MATH 1342
		4		
		MATH 1341	4	GE 1111
		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	4	Co-op
		PHYS 2371 ³	3	PHYS 3602 ⁶
		4	4	PHYS 3603 ⁷
		PHYS 2372 ³	1	Elective
		4		
		CHEM 1211	4	Elective
		4		4
		CHEM 1212	1	EESC 2000
		1		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	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
		4	0	Vacation
		PHYS 1161	4	PHYS 1166
		1		1
		PHYS 1162	1	PHYS 1167
		0		0
		PHYS 1163	0	MATH 1342
		4		4
		ENGW 1111	4	GE 1111
		4		4
		MATH 1341	4	BIOL 1113
		4		4
		BIOL 1111	4	BIOL 1114
		1		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	0	MATH 2341
		PHYS 2371 ³	3	Elective
		4		4
		PHYS 2372 ³	1	
		4		
		MATH 2321	4	
		4		
		CHEM 1211	4	
		4		
		CHEM 1212	1	
		1		
		CHEM 1213	0	
		4		
		EESC 2000	1	
		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	0	PHYS 2305 ²
		4		PHYS 3600 ⁴
		4		4
		Technical elective		
		4		
		Elective	4	
		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	0	Vacation
		PHYS 4621 ¹⁰	4	
		4		
		PHYS 4623 ¹¹	4	
		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 MATH 1342	4		
MATH 1341	4 GE 1111	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 & spring² PHYS 2305 offered every spring & summer 2 (even years)³ PHYS 2371/2372 offered every fall⁴ PHYS 3600 offered every summer 1 & summer 2⁵ PHYS 3601 offered spring (even years) & fall (odd years)⁶ PHYS 3602 offered every fall & spring⁷ PHYS 3603 offered fall (even years) & summer 1 (odd years)⁸ PHYS 5115 offered every fall & spring⁹ PHYS 5318 offered every spring¹⁰ 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

Computer Science and Physics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C- or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4
Computer Science Senior Seminar		
CS 4000 or THTR 1170	Senior Seminar 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
<i>Computer Science Capstone</i>		
CS 4100	Artificial Intelligence	
CS 4300	Computer Graphics	
CS 4900	Honors Senior Seminar	
CS 4750	Secure Wireless Ad Hoc Robots on Mission (SWARM) 1	
CS 4760	Secure Wireless Ad Hoc Robots on Mission (SWARM) 2	
CS 4410	Compilers	
CS 4150	Game Artificial Intelligence	
CS 4550	Web Development	
CS 4650	High Performance Computing	
CS 4997	Computer Science Thesis	
CS 4998	Computer Science Thesis Continuation	
<i>Physics Capstone</i>		
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, project study, or appropriate graduate-level course may be taken as a computer science elective.

Complete one course from the following ranges:	4
CS 2600 to CS 7999 but not CS 5010	
IS 2000 to IS 7999 but not IS 4900	

Physics Elective

Only one physics elective is required if the student has completed the physics capstone (above).

Complete two courses from the following range:	8
PHYS 3000 to PHYS 5999	

Mathematics 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

Computing and Social Issues

Code	Title	Hours
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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 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

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

Program Requirement

135 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				
CS 1800	4	CS 2510	4	Vacation	0	Vacation	0	0
CS 2500	4	CS 2511	1					
CS 2501	1	MATH 1342	4					
MATH 1341	4	PHYS 1165	4					
PHYS 1161	4	PHYS 1166	1					
PHYS 1162	1	ENGW 1111	4					
CS 1200	1							
CS 1801	0							
	19		18		0		0	

Year 2								
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours				
CS 3500	4	CS 4800	4	Vacation	0	Co-op	0	0
PHYS 2303	4	MATH 2321	4					
PHYS 2371	3	PHYS 2305	4					
PHYS 2372	1	MATH 2341	4					
CS 2800	4	CS 1210	1					
CS 2801	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	4	0
		Elective	4	Elective	4			
		PHYS 3602	4					
		ENGW 3302	4					
	0		16		8		0	

Year 4								
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours				
Co-op	0	CS 4500	4	Elective	4	Co-op	4	0
		MATH 4525	4	Elective	4			
		PHYS undergraduate elective	4					
		SOCL 4528	4					
	0		16		8		0	

Year 5			
Fall	Hours Spring	Hours	
Co-op	0	CS undergraduate elective	4
		CS 4000	1
		PHYS undergraduate elective	4
		Elective	4
		Elective	4
	0		17

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 1800	4	CS 2510	4	Vacation	0	Vacation	0	0
CS 1801	0	CS 2511	1					
CS 2500	4	MATH 1342	4					
CS 2501	1	PHYS 1165	4					
PHYS 1161	4	PHYS 1166	1					
PHYS 1162	1	ENGW 1111	4					
CS 1200	1							
MATH 1341	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	0
PHYS 2303	4							
PHYS 2371	3							
PHYS 2372	1							
CS 2800	4							
CS 2801	1							
CS 1210	1							
	18		0		0		0	

Year 3								
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours				
CS 4800	4	Co-op	0	Co-op	0	PHYS 2305	4	4
MATH 2321	4					PHYS 3600	4	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	4
Elective	4					Elective	4	4
PHYS 3602	4							
ENGW 3302	4							
	16		0		0		8	

Year 5			
Fall	Hours Spring	Hours	
CS 4500	4	CS undergraduate elective	4
MATH 4525	4	CS 4000	1
PHYS undergraduate elective	4	PHYS undergraduate elective	4
SOCL 4528	4	Elective	4
		Elective	4
	16		17

Total Hours: 136

Mathematics and Physics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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
or MATH 4000	Co-op and Experiential Learning Reflection Seminar 2	
Mathematics Elective		
Complete one course from the following range:		
MATH 3101 to MATH 4899		

Physics Requirements

Code	Title	Hours
Physics 1		
Complete one of the following:		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	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	
Physics 2		
Complete one of the following:		
PHYS 1165 and PHYS 1166	Physics 2 and Lab for PHYS 1165	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	
---------------------------------------	------------------------------------------------------------------------------------------------	--

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 from 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
MATH 1341	4	MATH 1342	4	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
MATH 2321	4	MATH 2341	4	Vacation	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
Co-op	0	PHYS 3601	4	PHYS 3600	4
		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

Physics and Music with Concentration in Music Composition and 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Physics Major Requirements

Code	Title	Hours
Introductory Physics		
<i>Physics 1</i>		
PHYS 1161 and PHYS 1162	Physics 1 and Lab for PHYS 1161	5
<i>Physics 2</i>		
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 Historical Traditions		
MUSC 1201	Music Theory 1	4
MUSC 1202	Music Theory 2	4
MUST 1301	Introduction to Composition	4
MUST 2315	History of Electronic Music	4
MUSC 3560	Historical Traditions: Music since 1900	4
Music Technology		
MUST 1220	Introduction to Music Technology	4
MUST 3421	Digital Audio Processing	4
MUST 4520	Interactive Real-Time Performance	4
Music Ensemble		
Complete two music ensembles:		2
MUSC 1904	Chorus	
MUSC 1905	Band	
MUSC 1906	Orchestra	
MUSC 1907	Wind Ensemble	
MUSC 1911	Jazz Ensemble	
MUSC 1912	Rock Ensemble	
MUSC 1913	Blues/Rock Ensemble	
MUSC 1914	Create Your Own Music	
MUSC 1915	Chamber Ensemble	
MUSC 1916	Contemporary Music Ensemble	
MUSC 1917	Jazz Choir and Combo	
MUSC 1918	World Music Ensemble	
MUSC 1919	Fusion Ensemble	
MUSC 1920	Pep Band	
MUSC 1921	World Fusion Ensemble	
Music Technology Capstone/Senior Recital		
MUST 4611	Music Technology Capstone/Senior Recital	4

Music Electives Requirements

Complete three additional courses in the following ranges:	12
MUSC 2000 to MUSC 4993	
MUST 2320 to MUST 4993	

Physics/Music Integrative Requirements

Code	Title	Hours
Integrative Course Requirements		
MUST 1220	Introduction to Music Technology	4
MUST 3421	Digital Audio Processing	4

Physics and Music Combined-Major Credit Requirement

Complete 108 semester hours in the major.

Program Requirement

128 total semester hours required

Physics 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. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

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 Major Requirements

Code	Title	Hours
Introductory Physics		
<i>Physics 1</i>		
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	
<i>Physics 2</i>		
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 or PHYS 4606	Mathematical and Computational Methods for Physics Mathematical and Computational Methods for Physics	
PHYS 5111	Astrophysics and Cosmology	
PHYS 5113	Introduction to Particle and Nuclear Physics	
PHYS 5114	Physics of Advanced Materials	
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 or PHIL 1215	Introduction to Logic Symbolic Logic	4
PHIL 2325 or POLS 2325	Ancient Philosophy and Political Thought Ancient Philosophy and Political Thought	4
PHIL 2330	Modern Philosophy	4
PHIL 4500 or PHIL 4505	Theory of Knowledge Metaphysics	4
Philosophy Seminar		
Complete one of the following:		4
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4901	Topics in Philosophy Seminar	
PHIL 4902	Great Philosophers Seminar	
PHIL 5001	Global Justice	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	

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

Physics and Philosophy Major Credit Requirement

Complete 98 semester hours in the major.

Program Requirement

131 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 MATH 1342	4 Vacation	0 Vacation	0
MATH 1341	4 PHYS 1165	4		
Elective	4 PHYS 1166	1		
PHYS 1161	4 PHYS 1167	0		
PHYS 1162	1 PHIL 1115	4		
PHYS 1163	0 ENGW 1111	4		
PHIL undergraduate elective	4			
	18	17	0	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
PHIL 2325	4 PHYS 2305	4 Vacation	0 Co-op	0
MATH 2321	4 MATH 2341	4		
PHYS 2303	4 PHIL 2330	4		
PHYS 2371	3 Elective	4		
	15	16	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 PHYS 3601	4 Elective	4 Co-op	0
	PHYS 3602	4 PHYS 3600	4	
	PHIL undergraduate elective	4		
	PHIL 4505	4		
	0	16	8	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 PHIL undergraduate elective	4 Elective	4 Co-op	0
	ENGW 3302	4 PHYS undergraduate elective	4	
	Elective	4		
	PHIL 4510	4		
	0	16	8	0

Year 5

Fall	Hours Spring	Hours
Co-op	0 PHIL 4902	4
	Elective	4
	PHYS 5115	4
	PHYS undergraduate elective	4
	0	16

Total Hours: 130

Chemical Engineering and Physics, BSCHE**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Chemistry Requirement

Complete 22 semester hours in advanced chemistry as indicated below.

Code	Title	Hours
BIOL 1111 or BIOL 1115	General Biology 1 or 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
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	
Total Hours		22

Engineering

Complete 49 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 and CHME 2311	Transport Processes 1 and Lab for CHME 2310	6
CHME 3312 and CHME 3313	Transport Processes 2 and Separations and Lab for CHME 3312	6
CHME 2320	Chemical Engineering Thermodynamics 1	4
CHME 3322	Chemical Engineering Thermodynamics 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 from any of the following subject areas: CHME, CIVE, EECE, ME, IE, MEIE, and ENGR	4
-----------------------------------------------------------------------------------------------------------------------------------------	---

Supplemental Credit

3 semester hours from the following course count toward the engineering requirement: GE 1501 Cornerstone of Engineering 1	3
2 semester hours from the following course count toward the engineering requirement: GE 1502 Cornerstone of Engineering 2	2

Professional Development

Complete 5 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 each of the following courses will apply to the professional development area: GE 1501 Cornerstone of Engineering 1 GE 1502 Cornerstone of Engineering 2	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

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
MATH 1341	4	MATH 1342	4	PHYS 1155	3	Vacation	0
CHEM 1151	4	PHYS 1151	3	PHYS 1156	1		
CHEM 1153	0	PHYS 1152	1	PHYS 1157	1		
GE 1000	1	PHYS 1153	1	Elective	4		
GE 1111	4	GE 1111	4				
Elective	4	ENGW 1111	4				
		17			17		
						9	0

Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	MATH 2341	4	Vacation	0	Co-op	0
CHEM 2311	4	PHYS 2303	4				
CHEM 2312	1	CHME 2000	1				
PHYS 2371	3	CHME 2310	4				
PHYS 2372	1	CHME 2311	2				
CHME 2308	4	CHME 2320	4				
		17			19		
						0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 CHEM 2313	4 PHYS 3600	4 Co-op	0
	CHEM 2314	1 ENGW 3302	4	
	CHME 3312	4		
	CHME 3313	2		
	CHME 3322	4		
	BIOL 1115	4		
	BIOL 1116	1		
	0	20	8	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 PHYS 3601	4 Vacation	0 Co-op	0
	PHYS 3602	4		
	CHME 3000	1		
	CHME 4510	4		
	CHME 4701	4		
	0	17	0	0

Year 5		
Fall	Hours Spring	Hours
Co-op	0 PHYS 5115	4
	PHYS 5318	4
	CHME 4703	4
	CHME technical elective	4
	0	16

Total Hours: 140

Computer Engineering and Physics, BSCompE

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA required in EECE courses

Mathematics/Science Requirement

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 1801	Discrete Structures and Recitation for CS 1800	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 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
PHYS 4606	Mathematical and Computational Methods for Physics	
PHYS 4621	Biological Physics 1	
PHYS 4623	Medical Physics	
PHYS 4651	Medical Physics Seminar 1	
PHYS 4652	Medical Physics Seminar 2	
PHYS 5111	Astrophysics and Cosmology	
PHYS 5113	Introduction to Particle and Nuclear Physics	
PHYS 5114	Physics of Advanced Materials	
PHYS 5116	Complex Networks and Applications	
PHYS 5260	Introduction to Nanoscience and Nanotechnology	

Supplemental Credit

1 semester hour from the following course counts toward the mathematics/science requirement:		1
GE 1502	Cornerstone of Engineering 2	

Engineering

Complete 48 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		

EECE 2150 and EECE 2151	Circuits and Signals: Biomedical Applications and Lab for EECE 2150	5
EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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

Complete two of the following:		8
EECE 2750	Enabling Engineering	
EECE 3154	Hyperspectral Imaging in an International Context	
EECE 4993	Independent Study	
EECE 2412 to EECE 2530		
EECE 3324 to EECE 4698		
EECE 5576 to EECE 5698		
ENGR 5670	Sustainable Energy: Materials, Conversion, Storage, and Usage	
GE 4608	Nanotechnology in Engineering	
CS 3200	Database Design	
CS 3500	Object-Oriented Design	
CS 3540 to CS 3800		
CS 4100 to CS 4650		
CS 4740 to CS 4850		
CS 5010 to CS 5610		
CS 5650 to CS 5850		
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	
2 semester hours from the following course count toward the engineering requirement:		2
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 each of the following courses counts toward the engineering requirement:		2
GE 1501	Cornerstone of Engineering 1	
GE 1502	Cornerstone of Engineering 2	

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

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 through 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

131 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
CHEM 1151	4	PHYS 1165	4				
CHEM 1153	0	PHYS 1166	1				

PHYS 1161	4	GE 1111	4
PHYS 1162	1	ENGW 1111	4
GE 1000	1		
GE 1110	4		
	18	17	0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	PHYS 2305	4	Vacation	0	Co-op	0
MATH 2341	4	EECE 2000	1				
PHYS 2303	4	EECE 2150	4				
EECE 2160	3	EECE 2151	1				
EECE 2161	1	CE fundamental course	5				
		CS 1800	4				
		CS 1801	0				
	16		19		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602	4	Elective	4	Co-op	0
		EE fundamental course	5	PHYS 3600	4		
		CE fundamental course	5				
		ENGW 3302	4				
	0		18		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 5115	4	EECE 4790	4	Co-op	0
		EECE 3000	1	EECE technical elective	4		
		CE fundamental course	5				
		MATH 3081	4				
		Elective	4				
	0		18		8		0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	EECE 4792	4
		EECE technical elective	4
		PHYS advanced elective	4
		Elective	4
	0		16

Total Hours: 138

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA required in EECE courses

Mathematics/Science Requirement

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	

Engineering Requirement

Complete 51 semester hours in engineering as indicated below.

Code	Title	Hours
Required Courses		
EECE 2150 and EECE 2151	Circuits and Signals: Biomedical Applications and Lab for EECE 2150	5
EECE 2160 and EECE 2161	Embedded Design Enabling Robotics and Lab for EECE 2160	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		
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 3154	Hyperspectral Imaging in an International Context	
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 5576 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	
2 semester hours from the following course count toward the engineering requirement:		2
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 each of the following courses will apply to the professional development area:		1
GE 1501	Cornerstone of Engineering 1	
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 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	4	MATH 1342	4	Vacation	0	Vacation	0
CHEM 1151	4	PHYS 1165	4				
CHEM 1153	0	PHYS 1166	1				
GE 1110	4	ENGW 1111	4				
GE 1000	1	GE 1111	4				
PHYS 1161	4						
PHYS 1162	1						
	18		17		0		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	PHYS 2305	4	Vacation	0	Co-op	0
MATH 2341	4	EECE 2160	3				
EECE 2150	4	EECE 2161	1				
EECE 2151	1	EE fundamental course	5				
PHYS 2303	4	EECE 2000	1				
		Elective	4				
	17		18		0		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHYS 3602	4	Elective	4	Co-op	0
		CE fundamental course	5	PHYS 3600	4		
		EE fundamental course	5				
		ENGW 3302	4				
	0		18		8		0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	EECE 3468	4	EECE 4790	4	Co-op	0
		PHYS 5115	4	EECE technical elective	4		

	EECE technical elective	4		
	EE fundamental course	5		
	EECE 3000	1		
	0	18	8	0
Year 5				
Fall	Hours	Spring	Hours	
Co-op	0	EECE 4792	4	
		PHYS advanced elective	4	
		Elective	4	
		Elective	4	
	0	16		

Total Hours: 138

Mechanical Engineering and Physics, BSME**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Major GPA Requirement

2.000 minimum GPA required in IE, ME, and MEIE courses

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: PHYS 3600 to PHYS 5999	4
---------------------------------------------------------------------------------------	---

Supplemental Credit

1 semester hour from the following course counts toward the mathematics/science requirement: GE 1502 Cornerstone of Engineering 2	1
--------------------------------------------------------------------------------------------------------------------------------------	---

Engineering Requirement

Complete 59 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: GE 1501 Cornerstone of Engineering 1	3
2 semester hours from the following course counts toward the engineering requirement: GE 1502 Cornerstone of Engineering 2	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 each of the following courses will apply to the professional development area: GE 1501 Cornerstone of Engineering 1 GE 1502 Cornerstone of Engineering 2	2
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---

Additional 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.

Required General Electives

Complete 2 academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

Integrative Requirement

Principles of Experimental Physics (PHYS 5318) is part of the mathematics/science requirement above and is an integrative course.

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	4	MATH 1342	4	Vacation	0	Vacation	0		
CHEM 1151	4	PHYS 1165	4						
CHEM 1153	0	PHYS 1166	1						
PHYS 1161	4	GE 1111	4						
PHYS 1162	1	ENGW 1111	4						
GE 1000	1								
GE 1110	4								
		18			17			0	0

Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
MATH 2321	4	PHYS 2303	4	Vacation	0	Co-op	0
MATH 2341	4	MEIE 2000	1				
PHYS 2371	3	ME 2340	4				

PHYS 2372	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
Co-op	0	PHYS 3602	4	ME 3475	4
		ME 3455	4	PHYS 3600	4
		ME 3456	1		
		ME 4508	4		
		ENGW 3302	4		
	0		17	8	0
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	PHYS 3601	4	ME 4550	4
		MEIE 3000	1	MEIE 4701	1
		ME 4505	4	Elective	4
		ME 4506	1		
		ME 4555	4		
		ME 4570	4		
	0		18	9	0
Year 5					
Fall	Hours	Spring	Hours	Summer 2	Hours
Co-op	0	MEIE 4702	5	Co-op	0
		PHYS 5318	4		
		PHYS advanced elective	4		
		Elective	4		
	0		17		0

Total Hours: 139

Physics, BS/MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Breadth Courses For Physics

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
MATH 3081	Probability and Statistics	4

General Engineering

GE 1111	Engineering Problem Solving and Computation	4
---------	---------------------------------------------	---

Chemistry

CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5
-------------------------	-------------------------------------------	---

Technical Electives

Complete 4 semester hours from the following:		4
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		

Classical Mechanics and Math Methods

PHYS 7301	Classical Mechanics/Math Methods	4
-----------	----------------------------------	---

Physics Major Requirements

Introductory Physics

<i>Physics 1</i>		
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. 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

Senior Capstone

PHYS 5318	Principles of Experimental Physics	4
-----------	------------------------------------	---

Physics Major Credit Requirement

Complete 91 semester hours in the major.

Graduate Course Work to Be Taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Graduate Courses

Complete the following courses as an undergraduate student. These courses fulfill requirements listed above:

PHYS 5115	Quantum Mechanics	4
PHYS 5318	Principles of Experimental Physics	4
PHYS 7301	Classical Mechanics/Math Methods	4

General Electives

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

Program Requirements

133 total semester hours required for the bachelor's degree
Minimum 3.000 GPA required in all graduate courses

Applied Physics, BS/Engineering, MS**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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
General Engineering		
GE 1111	Engineering Problem Solving and Computation	4
Chemistry		
CHEM 1211 and CHEM 1212	General Chemistry 1 and Lab for CHEM 1211	5

Major Requirements

Code	Title	Hours
Introductory Physics		
<i>Physics 1</i>		
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	
<i>Physics 2</i>		
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
PHYS 5115	Quantum Mechanics	4

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
-----------	------------------------------------	---

Engineering Undergraduate Requirements

EECE 2150	Circuits and Signals: Biomedical Applications	4
-----------	-----------------------------------------------	---

EECE 2412	Fundamentals of Electronics	4
-----------	-----------------------------	---

EECE 2520	Fundamentals of Linear Systems	4
-----------	--------------------------------	---

Graduate Course Work to Be Taken As an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Code	Title	Hours
------	-------	-------

Graduate Courses

Complete the following courses as an undergraduate student.

These courses fulfill requirements listed above:

PHYS 5115	Quantum Mechanics	4
-----------	-------------------	---

PHYS 5318	Principles of Experimental Physics	4
-----------	------------------------------------	---

Applied Physics and Engineering Major Credit Requirement

Complete 70 semester hours in the major.

Program Requirements

135 total semester hours required for the bachelor's degree

Minimum 3.000 GPA required in all graduate courses

Physics, BS/PhD**Program Requirements**

Undergraduate students apply to the bachelor's/doctoral program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree. Consult the department for information on this program.

Physics, Minor

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

Required Courses

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

PHYS 2303	Modern Physics	4
-----------	----------------	---

Elective Courses

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

125 Nightingale Hall

617.373.3076

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.

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.

Programs

Bachelor of Science (BS)

- Psychology (p. 561)
- American Sign Language and Psychology (p. 565)
- Computer Science and Cognitive Psychology (p. 566)
- Criminal Justice and Psychology (p. 568)
- Information Science and Cognitive Psychology (p. 569)
- Linguistics and Psychology (p. 572)

Minor

- Psychology (p. 574)

Psychology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Psychology Major Requirements

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 4652	Seminar in Ethics in Psychology	

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	

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	

Directed Study Research

PSYC 4991	Directed Study Research	
or PSYC 4971	Junior/Senior Honors Project 2	

Psychology Required Electives

Complete five PSYC courses. 20

Mathematics Requirement

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	

Interdisciplinary Cluster

Complete three of the following courses. Choose from one group only: 11-15

Educational Psychology

AFAM 3485	Education Issues in the Black Community	
LING 3444	Linguistics in Education	
SLPA 4501	Language Disorders in Children	

SOCL 1290	Juvenile Delinquency
EDUC 4504	Learning and Accomplished Practice
EDUC 4530	Race and Urban Education
EDUC 4552	Inquiry in the Humanities and Social Sciences at the Elementary Level
EDUC 4570	Inclusion, Equity, and Diversity

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 1235	Social Psychology
SOCL 1240	Sociology of Prejudice and Violence
SOCL 1241	Sociology of Violence
SOCL 1255	Sociology of the Family
SOCL 1256	Violence in 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 Chemistry
CRIM 2200	Criminology
CRIM 4010	Gender, Crime, and Justice
CRIM 4020	Race, Crime, and Justice
CRIM 4710	Law and Psychology
CRIM 4660	Communities and Crime
CRIM 4310	Correctional Intervention

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

Counseling and Applied Psychology

CAEP 3480	Counseling Theories and Practice
CAEP 3485	Mental Health and Counseling
CAEP 4502	Health Counseling
HUSV 2300	Counseling in Human Services
HUSV 3520	Child Intervention and Treatment

Artificial Intelligence and Information Science

CS 1500	Algorithms and Data Structures for Engineering
CS 3800	Theory of Computation
CS 4100	Artificial Intelligence
CS 4120	Natural Language Processing
CS 4800	Algorithms and Data
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	Phonetics and Phonology
LING 3434	Bilingualism
PHIL 1215	Symbolic Logic
PHIL 4540	Philosophy of Language
LING 3412	Language and Culture
LING 3442	Sociolinguistics
SLPA 1202	Neurological Bases of Communication
SLPA 1205	Speech and Hearing Science
SLPA 4501	Language Disorders in Children

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

SOCL 1256	Violence in the Family
SOCL 1290	Juvenile Delinquency
SOCL 1295	Drugs and Society
SLPA 4501	Language Disorders in Children
SLPA 5150	Early Intervention: Assessment and Intervention
SOCL 3437	Children and Youth in Contemporary 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 1272	Social Roles in the Business World
SOCL 1273	Sociology of Gender and Work
SOCL 1280	The Twenty-First-Century Workplace

Philosophy of Science and Psychology

PHIL 1105	Science and Pseudoscience
PHIL 1114	Reason, Risk, and Evidence
PHIL 1115	Introduction to Logic
PHIL 1215	Symbolic Logic
PHIL 4510	Philosophy of Science
PHIL 4530	Philosophy of Psychology
PHIL 4535	Philosophy of Mind
PHIL 4540	Philosophy of Language

Ethics

PHIL 1130	Ethics: East and West
PHIL 1165	Moral and Social Problems in Healthcare
PHIL 1170	Business Ethics
PHIL 1180	Environmental Ethics
PHIL 2340	Philosophy of Human Nature

PHIL 3435	Moral Philosophy
PHIL 3465	Advanced Medical Ethics
SOCL 1240	Sociology of Prejudice and Violence

Biological and Chemical Sciences

BIOL 1141	Microbes and Society
ENVR 1445	Environment and Humankind
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 or EEMB 5568	Ecology Wildlife Biology
EEMB 5548	Sociobiology
EEMB 5564 or EEMB 5566	Ornithology Mammalogy
BIOL 5585	Evolution
CHEM 1107	Introduction to Forensic Chemistry
CHEM 2321	Analytical Chemistry
ENVR 1121	Marine Resources
EEMB 1123	Biological Oceanography

Physical Sciences and Mathematics

In addition to the following courses, any math skill course may be used with advisor approval:

ENVR 1121	Marine Resources
EEMB 1122	Physical Oceanography
EEMB 1123	Biological Oceanography
ENVR 1120	Oceans and Coasts
ENVR 1112	Environmental Geology
ENVR 1104	Natural Disasters and Catastrophes
ENVR 1101	Environmental Science
ENVR 1110	Global Climate Change
ENVR 1200	Dynamic Earth
ENVR 1140	Physical Geography
ENVR 3100	Oceanography
ENVR 3418	Geophysics
MATH 2210	Foundations of Mathematics
MATH 2310	Discrete Mathematics
MATH 4581	Statistics and Stochastic Processes

or any PHYS course

Health and Wellness

NRSRG 1205	Wellness
HSCI 1105	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
ENVR 1445	Environment and Humankind
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 1200	Sociology of Alcoholism
SOCL 1225	Aging in Society
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 4131	Sex and Interpersonal 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 3534	Group 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

Psychology Experiential Education Requirement

See the experiential education advisor in psychology for other options.

Complete one of the following:	0-8
COOP 3945	Co-op Work Experience
PSYC 4652	Seminar in Ethics in Psychology
PSYC 4991	Directed Study Research
PSYC 4994	Internship in Psychology

EDUC 4850 Teaching Practicum

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 undergraduate elective	4		
Math requirement	4 PSYC 1214 (or other elective)	4		
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 undergraduate 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 PSYC undergraduate elective	4 Co-op	0
	PSYC undergraduate 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 undergraduate elective	4
	PSYC interdisciplinary cluster	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 1214 (or other elective)	4		
Math requirement	4 PSYC undergraduate elective	4		
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 PSYC undergraduate 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 undergraduat 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 undergraduat elective	4 PSYC undergraduat elective	4
PSYC interdisciplinary cluster	4 PSYC interdisciplinary cluster	4
Elective	4 Elective	4
	16	16

Total Hours: 130

American Sign Language and Psychology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

American Sign Language and Psychology Combined-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
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		
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 2356	Nonverbal Communication	
PSYC 4520	Language and the Brain	
PSYC 4522	Psychology of Reading	
PSYC 4524	Cognitive Development	
PSYC 4526	Categorization and Reasoning	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	
Integrative Course Work		
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	Hours
AMSL 1101	4	AMSL 1102	4	Vacation	4	Vacation	0	0
DEAF 1500	4	PSYC 3464	4					
PSYC 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	Hours
AMSL 2101	4	AMSL 2102	4	Vacation	4	Vacation	0	0
LING 1150	4	PSYC 3466	4					
DEAF 2500	4	Psych Area A elective	4					
PSYC 2320	4	Elective	4					
	16		16		0		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	Hours
AMSL 3101	4	AMSL 3102	4	Vacation	4	Vacation	0	0
INTP 3500	2	DEAF 2700	4					
INTP 3510	4	Psych Area A or Area B elective	4					
Psych Area A or Area B elective	4	Psych elective or psych laboratory	4					
ENGW 3315	4							
	18		16		0		0	

Year 4

Fall	Hours	Spring	Hours	Hours
INTP 4940	4	Psych elective or psych laboratory	4	
Elective	4	Elective	4	
Elective	4	Elective	4	
Elective	4	Elective	4	
	16		16	

Total Hours: 130

Computer Science and Cognitive Psychology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1

Computer Science Fundamental Courses

A grade of C- or higher is required:

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4
CS 4100	Artificial Intelligence (Integrative course)	4
CS 4500	Software Development (Integrative course)	4
CS 4800	Algorithms and Data	4
IS 4300	Human Computer Interaction (Integrative course)	4

Computer Science Senior Seminar

CS 4000	Senior Seminar	1
or THTR 1170	The Eloquent Presenter	

Computer Science Elective Courses

With advisor approval, directed study, project study, and appropriate graduate-level courses may also be taken as computer science electives.

Complete two courses from the following ranges:	8
CS 2600 to CS 7999 but not CS 5010	
IS 2000 to IS 7999 but not IS 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 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 4522	Psychology of Reading
PSYC 4524	Cognitive Development
PSYC 4526	Categorization and Reasoning
PSYC 4610	Laboratory in Psycholinguistics
PSYC 4612	Laboratory in Cognition
PSYC 4622	Laboratory in Sensation and Perception
PSYC 4652	Seminar in Ethics in Psychology
PSYC 4658	Seminar in Psycholinguistics
PSYC 4660	Seminar in Cognition
PSYC 4668	Seminar in Sensation and Perception
PSYC 4674	Seminar in Cognitive Neuroscience

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

Additional Requirement

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

Code Title Hours

Complete one of the following: 4

PHIL 1145	Technology and Human Values
SOCL 1280	The Twenty-First-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

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 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

Five Years, Three Co-ops in Summer 2/Fall

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800	4	CS 2510	4	Vacation	0	Vacation	0
CS 2500	4	CS 2511	1				
CS 2501	1	CS 2800	4				
PSYC 1101	4	CS 2801	1				
ENGW 1111	4	Elective	4				
CS 1200	1	PSYC 3466	4				
CS 1801	0						
		18		18		0	

Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3500	4	Elective	4	Vacation	0	Co-op	0
MATH 1341	4	CS 4800	4				
PSYC 2320	4	PSYC 3464	4				
Elective	4	PSYC 3452	4				

	CS 1210	1		
	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
	PSYC undergraduat elective	4 Elective	4	
	ENGW 3302	4		
	CS undergraduat elective	4		
	0	16	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 undergraduat elective	4 Elective	4	
	Psych lab elective	4		
	PSYC undergraduat elective	4		
	0	16	8	0
Year 5				
Fall	Hours Spring	Hours		
Co-op	0 CS 4500	4		
	CS 4000	1		
	SOCL 4528	4		
	Psych seminar	4		
	Elective	4		
	0	17		

Total Hours: 134

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

	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Year 1				
Fall				
CS 1800	4 CS 2510	4 Vacation	0 Vacation	0
CS 2500	4 CS 2511	1		
CS 2501	1 CS 2800	4		
PSYC 1101	4 CS 2801	1		
ENGW 1111	4 PSYC 3466	4		
CS 1200	1 Elective	4		
CS 1801	0			
	18	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			
PSYC 2320	4			
Elective	4			

	CS 1210	1		
	17	0	0	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Elective	4 Co-op	0 Co-op	0 Elective	4
CS 4800	4		Elective	4
PSYC 3464	4			
PSYC 3452	4			
	16	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
PSYC undergraduat elective	4		Elective	4
ENGW 3302	4			
CS undergraduat elective	4			
	16	0	0	8
Year 5				
Fall	Hours Spring	Hours		
CS 4100	4 CS 4500	4		
CS undergraduat elective	4 CS 4000	1		
Psych lab elective	4 SOCL 4528	4		
PSYC undergraduat elective	4 Psych seminar	4		
	Elective	4		
	16	17		

Total Hours: 134

Criminal Justice and Psychology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 1600	Crimes against Humanity	
CRIM 1700	Crime, Media, and Politics	
Survey Elective		
Complete one of the following:		4
CRIM 3010	Criminal Violence	
CRIM 3020	Victims of Crime	
CRIM 3030	Global Criminology	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Juvenile Justice	
CRIM 3300	Corrections	
CRIM 3400	Security	
CRIM 3500	Policing	
System-Wide Elective		
Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4030	Criminal Justice Organization and Management	
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 from the following range:		8
CRIM 4000 to CRIM 5999		

Psychology Major 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 4652	Seminar in Ethics in Psychology	
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	

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

Information Science and Cognitive Psychology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer and Information Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
A grade of C– or higher is required:		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4
CS 4100	Artificial Intelligence (integrative course)	4
CS 4800	Algorithms and Data	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 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 4522	Psychology of Reading	
PSYC 4524	Cognitive Development	
PSYC 4526	Categorization and Reasoning	
PSYC 4610	Laboratory in Psycholinguistics	
PSYC 4612	Laboratory in Cognition	
PSYC 4622	Laboratory in Sensation and Perception	
PSYC 4652	Seminar in Ethics in Psychology	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4668	Seminar in Sensation and Perception	
PSYC 4674	Seminar in Cognitive Neuroscience	

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	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Additional Requirement

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

Code	Title	Hours
Complete one of the following:		4
PHIL 1145	Technology and Human Values	
SOCL 1280	The Twenty-First-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	

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 seven general electives.	28

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

Five Years, Three Co-ops in Summer 2/Fall

Year 1					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
CS 1800	4 CS 2510	4 Vacation	0 Vacation	0	
CS 2500	4 CS 2511	1			
CS 2501	1 CS 2800	4			
CS 1200	1 CS 2801	1			
PSYC 1101	4 Elective	4			
ENGW 1111	4 PSYC 3466	4			
CS 1801	0				
	18	18	0	0	
Year 2					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
IS 2000	4 IS 4300	4 Vacation	0 Co-op	0	
CS 3500	4 CS 3800	4			
MATH 1341	4 PSYC 3464	4			
PSYC 2320	4 PSYC 3452	4			
	CS 1210	1			
	16	17	0	0	
Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
Co-op	0 IS 3500	4 Elective	4 Co-op	0	
	ENGW 3302	4 Elective	4		

	PSYC undergraduate elective	4			
	Elective	4			
	0	16	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	
	IS 4800	4 Elective	4		
	Psych lab elective	4			
	PSYC undergraduate elective	4			
	0	16	8	0	
Year 5					
Fall	Hours Spring	Hours			
Co-op	0 IS 4900	5			
	SOCL 4528	4			
	Psych seminar	4			
	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	
CS 1800	4 CS 2510	4 Vacation	0 Vacation	0	
CS 2500	4 CS 2511	1			
CS 2501	1 CS 2800	4			
CS 1200	1 CS 2801	1			
PSYC 1101	4 Elective	4			
ENGW 1111	4 PSYC 3466	4			
CS 1801	0				
	18	18	0	0	
Year 2					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
IS 2000	4 Co-op	0 Co-op	0 Vacation	0	
CS 3500	4				
MATH 1341	4				
PSYC 2320	4				
CS 1210	1				
	17	0	0	0	
Year 3					
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
IS 4300	4 Co-op	0 Co-op	0 Elective	4	
CS 4800	4		Elective	4	
PSYC 3464	4				
PSYC 3452	4				
	16	0	0	8	

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
IS 3500	4 Co-op	0 Co-op	0 Elective	4
PSYC undergraduate elective	4		Elective	4
ENGW 3302	4			
Elective	4			
	16	0	0	8

Year 5

Fall	Hours Spring	Hours
CS 4100	4 IS 4900	5
IS 4800	4 SOCL 4528	4
Psych lab elective	4 Psych seminar	4
PSYC undergraduate elective	4 Elective	4
	16	17

Total Hours: 134

Linguistics and Psychology, 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. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

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	Phonetics and Phonology	4
LING 3450	Syntax	4
Linguistics Electives		
Complete three of the following:		12
DEAF 2700	ASL Linguistics	
LING 3402	African-American English	
LING 3424	Morphology	

LING 3428	African Languages
LING 3430	Applied Linguistics
LING 3432	Romance Linguistics
LING 3434	Bilingualism
LING 3436	Structure of Spanish
LING 3438	Structure of French
LING 3442	Sociolinguistics
LING 3444	Linguistics in Education
LING 3448	Issues in Linguistics
LING 3452	Semantics
LING 3454	History of English
LING 3456	Language and Gender
LING 3458	Topics in Linguistics
LING 3460	Historical 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 LING 4993	Independent Study
PHIL 1215	Symbolic Logic
PHIL 4540	Philosophy of Language

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 2356	Nonverbal Communication	
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 4522	Psychology of Reading
PSYC 4524	Cognitive Development
PSYC 4526	Categorization and Reasoning
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
PSYC 4991	Directed Study Research

Linguistics/Psychology Combined-Major Requirements

Code	Title	Hours
Experiential Learning		
Complete a directed study, two junior/senior honors project courses, or a study abroad (not a Dialogue):		
LING 4991	Directed Study Research	4
LING 4996	Experiential Education Directed Study	4
LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	8
PSYC 4970 and PSYC 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	8
PSYC 4991	Directed Study Research	4
Integrative Course		
PSYC 3464	Psychology of Language	4

Linguistics and Psychology Combined-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			
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				
		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				
		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

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	
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

Elective Courses

Complete two PSYC courses.

8

GPA Requirement

2.000 GPA required in the minor

Psychology, Minor

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.

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

College of Social Sciences and Humanities

Website (<http://www.northeastern.edu/cssh>)

Uta Poiger, PhD, Dean

Matthew Tobin, MBA, Associate Dean, Administration and Finance

Tim Cresswell, PhD, Associate Dean, Faculty

Ellen Cushman, PhD, Director of Civic Sustainability, Diversity, and Inclusion Initiatives

Chris W. Gallagher, PhD, Associate Dean, Teaching, Learning, and Experiential Education

Erika J. Koss, MA, Assistant Dean, Research, Program Development, and Outreach

John F. McDevitt, MPA, Associate Dean, Research, and Graduate Studies

Mary C. Mello, MA, Assistant Dean, Undergraduate Academic Affairs

Dean's Office

420 Renaissance Park

617.373.5173

617.373.2942 (fax)

Melissa Newton, *Administrative Assistant*, m.newton@northeastern.edu

Office of Student Academic Affairs

180 Renaissance Park

617.373.3980

617.373.7281 (fax)

csshadvising@northeastern.edu

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 sixteen 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.

Students may choose a four- or five-year learning plan in all programs. Both plans offer co-op opportunities in an area related to the student's

chosen academic interests. Students are normally eligible to participate in co-op in the second semester of their sophomore year.

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 (<http://www.northeastern.edu/cssh>). Prelaw advising (<http://www.northeastern.edu/prelaw>) and premedical/pre dental 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.

Interdisciplinary

Interdisciplinary Major

- Politics, Philosophy, and Economics, BS (p. 575)

Interdisciplinary Minors

- Food Systems Sustainability, Health and Equity, Minor (p. 578)
- Latino/a, Latin American and Caribbean Studies, Minor (p. 579)
- Law and Public Policy, Minor (p. 579)
- Urban Studies, Minor (p. 580)
- Women's, Gender and Sexuality Studies, Minor (p. 581)

Politics, Philosophy, and Economics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: "TBD" stands for "to be determined."

Politics, Philosophy, and Economics Major Requirements

Code	Title	Hours
Foundation Courses		
PHIL 1160	Introduction to Economic Justice	4
PHIL 2303	Social and Political Philosophy	4
Core Courses		
POLS 1160	International Relations	4
ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
Core Elective 1		
POLS 1150	American Government	4
or POLS 1155	Comparative Politics	
Core Elective 2		
Complete one of the following:		4
ECON 2350	Statistics	
POLS 2400	Quantitative Techniques	
MATH 2280	Statistics and Software	
Theoretical Courses		
<i>Note: no more than two courses are allowed in any one field.</i>		
Complete three of the following:		12
PHIL 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	
PHIL 3435	Moral Philosophy	
POLS 3405	International Political Economy	
ECON 2315	Macroeconomic Theory	
ECON 2316	Microeconomic Theory	
Racial or Gender Justice		
Complete one of the following:		4
AFAM 2339	Analysis of American Racism	
AFAM 2345	The Black Experience in the Caribbean	
AFAM 2360	Politics of Poverty	
or POLS 2360	Politics of Poverty	
AFAM 2367	Race and Social Identity	
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	
PHIL 1150	Sex, Power, and Oppression: An Introduction	
POLS 2375	Gender and Politics	

POLS 2380	Latino Politics in the United States
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
SOCL 1260	Gender in a Changing Society
or 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 2259	Sex and Gender in the Jewish Experience
WMNS 2302	Gender and Sexuality: A Cross-Cultural Perspective
or ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective
WMNS 2304	Communication and Gender
WMNS 2373	Gender and Sexuality in World History
or HIST 2373	Gender and Sexuality in World History
WMNS 2480	Women and World Politics
or INTL 2480	Women and World Politics
WMNS 2505	Digital Feminisms
WMNS 2800	Sexual Orientation and Gender Expression in Practice and Policy
or HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy
WMNS 3100	Gender, Social Justice, and Transnational Activism
WMNS 3304	Communication and Inclusion
or COMM 3304	Communication and Inclusion
WMNS 3500	Sexuality, Gender, and the Law

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.)

Additional Requirements

Code	Title	Hours
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 4948	Community-Based Research Practicum	
POLS 4996	Experiential Education Directed Study	
PHIL 4996	Experiential Education Directed Study	
Capstone		

Complete one of the following: 4

ECON 4692	Senior Economics Seminar
PHIL 4901	Topics in Philosophy Seminar
PHIL 4902	Great Philosophers Seminar
PHIL 5001	Global Justice
POLS 4701	Political Science Senior Capstone
POLS 4703	Senior Thesis

Required Electives

Code **Title** **Hours**
Complete two courses from the course list below or from the focus areas listed below: 8-12

Course List

ECON 3000 to ECON 5999

PHIL 2000 to PHIL 5999

POLS 2000 to POLS 5999

Focus Areas

Health Policy and Medical Ethics

ECON 1230 Healthcare and Medical Economics

POLS 2385 U.S. Health and Welfare Policy

PHIL 1165 Moral and Social Problems in Healthcare

PHIL 3465 Advanced Medical Ethics

Security

ECON 1240 Economics of Crime

PHIL 1114 Reason, Risk, and Evidence

PHIL 2302 Philosophical Problems of War and Peace

POLS 3408 International Security

POLS 3410 Nontraditional Security Issues

POLS 3412 Homeland Security Policy and Politics

POLS 3427 Civil-Military Relations

POLS 4918 Model NATO

Sports and Society

ECON 3481 Economics of Sports

PHIL 1162 Ethics and Philosophy through Sport

POLS 3496 International Relations and Sports

Technology

ECON 1293 European Economic History

PHIL 1145 Technology and Human Values

PHIL 4510 Philosophy of Science

POLS 2390 Science, Technology, and Public Policy

Major GPA/Credit Requirement

Complete 76 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	
or PHIL 3480	Environmental Philosophy	
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	
PHIL 3480	Environmental Philosophy	
POLS 3410	Nontraditional Security Issues	

CONCENTRATION IN INTERNATIONAL POLITICAL ECONOMY

Code	Title	Hours
------	-------	-------

Requirement 1

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 3409	Global Governance	
POLS 3487	Politics of Developing Nations	
POLS 3457	Transatlantic Relations	
PHIL 4545	Religion and Politics in South Asia	

Requirement 2

Complete one of the following: 4

ECON 1292	Economic History of the Middle East	
ECON 1293	European Economic History	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
POLS 3450	Government and Politics in Russia	
POLS 3460	Contemporary Government and Politics in Africa	
POLS 3465	Government and Politics in the Middle East	
POLS 3475	Government and Politics in Latin America	
POLS 3480	Government and Politics in Japan	
POLS 3485	China: Governance and Foreign Policy	
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	
PHIL 2301	Philosophical Problems of Law and 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
<i>Required Course</i>		
PHIL 1115	Introduction to Logic	4
<i>Electives</i>		
Complete two of the following:		8
ECON 1250	Game Theory in the Social Sciences	
ECON 4681	Information Economics and Game Theory	
PHIL 2001	Ethics and Evolutionary Games	
PHIL 4515	Advanced Logic	
PHIL 4520	Philosophy of Logic	
TBD::Concepts in Gar		

CONCENTRATION IN POLITICAL PHILOSOPHY

Code	Title	Hours
<i>Politics Courses</i>		
Complete two of the following:		8
POLS 2326	Premodern Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
<i>Philosophy Course</i>		
Complete one of the following:		4
PHIL 2301	Philosophical Problems of Law and Justice	
PHIL 2302	Philosophical Problems of War and Peace	
PHIL 3435	Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4535	Philosophy of Mind	
PHIL 3436	History of Modern Moral Philosophy	
PHIL 5001	Global Justice	

CONCENTRATION IN PUBLIC AND ECONOMIC POLICY

Code	Title	Hours
<i>Required Course</i>		
POLS 3307	Public Policy and Administration	4
<i>Elective Courses</i>		
Complete two of the following:		8

ECON 1240	Economics of Crime
ECON 1270	Economic Status of Ethnic Minorities
ECON 1281	Economics of the Creative Industries
ECON 3410	Labor Economics
ECON 3414	Economics of Human Capital
ECON 3415	Poverty and Income
ECON 3420	Urban Economic Issues
ECON 3422	Economics of Transportation
ECON 3423	Environmental Economics
ECON 3425	Energy Economics
ECON 3440	Public Finance
ECON 3461	Government and Business
ECON 3490	Public Choice Economics
ECON 4680	Competition Policy and Regulation
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 3410	Nontraditional Security Issues
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 2385	U.S. Health and Welfare Policy
POLS 3315	Interest Groups and Public Policy
POLS 3402	Survey Research and Polling
POLS 3412	Homeland Security Policy and Politics
POLS 3425	U.S. Foreign Policy
POLS 4948	Community-Based Research Practicum

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 J. Bosso, 360K Renaissance Park, c.bosso@northeastern.edu.

Program Requirements

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

Required Courses

Complete four courses as listed below. Two of the courses must be upper-level (numbered 3000 or higher). Only one course can be from the major.

Upper-Level Courses

COMM 3500	Environmental Issues, Communication, and the Media	4
ECON 3404	International Food Economics and Policy	4
ENTR 4506	Advanced Studies in Social Enterprise	4
ENVR 3300 and ENVR 3301	Geographic Information Systems and Lab for ENVR 3300	5
ENVR 4515	Sustainable Development	4
PHTH 5280	Food, Food Policy, and Health	3-4
POLS 3410	Nontraditional Security Issues	4
PPUA 4701	Food Systems Sustainability, Health, and Equity Practicum	4
PPUA 5263	Geographic Information Systems for Urban and Regional Policy	3
PPUA 5270	Food Systems and Public Policy	3

Additional Courses

ENTR 2206	Global Social Enterprise	4
ENVR 1101	Environmental Science	4
ENVS 2342	Eating and the Environment	4
HIST 1201	First-Year Seminar	4
HSCI 1106	Contemporary Issues in Nutrition	4
INSH 1102	Food in Contemporary Context	4
PHIL 1185	The Ethics of Food	4

GPA Requirement

2.000 GPA required in the minor

Latino/a, Latin American and Caribbean Studies, 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 Associate Professor Daniel Noemi Voionmaa, d.noemivoionmaa@northeastern.edu

Program 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

LACS 1220	Latino, Latin American, and Caribbean Studies	4
Complete one of the following:		4
HIST 1187	Introduction to Latin American History	
HIST 1260	Modern Latin America	
CLTR 1505	Introduction to Latin American Culture	

Culture and Literature Electives

Complete two of the following:		8
CLTR 1240	Latin American Film	
CLTR 1504	Introduction to Spanish Culture	
MUSC 1131	Music of Latin America and the Caribbean	
CLTR 1509	An Introduction to Afro-Cuban Culture	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture	
CLTR 2510	Brazilian Culture through Film	
CLTR 1508	Cuban History and Culture through Film	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2480	U.S. Latino/a Literature	
LITR 4655	Latin American Literature	
CLTR 1505	Introduction to Latin American Culture	
LITR 1260	Caribbean Literature and Culture	
CLTR 3710	Representing Latin American Cities	
CLTR 3715	New Narratives: Latin America after 1989	
CLTR 3725	Representing Violence and Human Rights in Latin America	
CLTR 3720	Literature, Arts, and Poverty in Latin America	

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.

Complete two of the following:

AFAM 2345	The Black Experience in the Caribbean
HIST 1260	Modern Latin America
POLS 3475	Government and Politics in Latin America
ANTH 2365	Sport, Culture, and Society
SOCL 3460	Sociology of Latino Society
SOCL 2270	Race and Ethnic Relations
HIST 1206	Drug Trade and Drug War: History, Security, Culture
ANTH 4500	Latin American Society and Development
HIST 4660	Topics in Latin American History

GPA Requirement

2.000 GPA required in the minor

Law and Public Policy, 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.

Program Requirements

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

Required Courses

LPSC 1101	Introduction to Law (a grade of B or higher is required)	4
LPSC 2301	Introduction to Law, Policy, and Society (a grade of B or higher is required)	4

Law and Public Policy Course

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 3305	Law and the City
LPSC 3306	Law and Literature
LPSC 4304	Advanced Debates in Law and Public Policy

Elective Courses

Complete two of the following courses not used for the requirements above: 8

AFAM 2549	Public Policy and Black America
ANTH 4580	Special Topics in Anthropology
COMM 1331	Legal Argumentation, Advocacy, and Citizenship
COMM 3501	Free Speech: Law and Practice
CRIM 1300	The Death Penalty
CRIM 1400	Human Trafficking
CRIM 2200	Criminology
CRIM 3030	Global Criminology
CRIM 3040	Psychology of Crime
CRIM 3100	Criminal Law
CRIM 3200	Juvenile Justice
CRIM 3900	Topics in Criminal Justice and Criminology
CRIM 4010	Gender, Crime, and Justice
CRIM 4020	Race, Crime, and Justice
CRIM 4100	Juvenile Law
CRIM 4110	Legal Philosophy
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
ECON 3461	Government and Business
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)
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy
INTL 3400	International Conflict and Negotiation
JRNL 3550	Law of the Press
LPSC 2302	Global Human Rights: A Social and Economic Perspective
LPSC 3303	Topics in Law and Public Policy
LPSC 3305	Law and the City
LPSC 3306	Law and Literature
LPSC 4304	Advanced Debates in Law and Public Policy
MUSI 3335	Copyright Law for Musicians
PHIL 1160	Introduction to Economic Justice
PHIL 2301	Philosophical Problems of Law and Justice
PHIL 2303	Social and Political Philosophy
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
SOCL 1241	Sociology of Violence
SOCL 1260	Gender in a Changing Society
SOCL 2205	Law and Social Justice
SOCL 3406	Class, Crime, and the Legal System
SOCL 4514	"The Wire" and the Study of Urban Inequalities
SOCL 4518	Law and Social Issues
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.

Program Requirements

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

Required Courses

POLS 2357	Growth and Decline of Cities and Suburbs	4
SOCL 2358	Current Issues in Cities and Suburbs	4

Elective Courses

Complete two of the following: 8

AFAM 2312	Black History of Boston	
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 2232	History of Boston	
HIST 2344	U.S. Urban History	
HIST 3487	Central European Capitals on the Eve of World War I	
LPSC 5201	Law and the City	
POLS 2345	Urban Policies and Politics	
POLS 2350	State and Local Politics	
POLS 2355	Intergovernmental Relations	
POLS 2357	Growth and Decline of Cities and Suburbs	
POLS 2360	Politics of Poverty	
POLS 2380	Latino Politics in the United States	
POLS 3307	Public Policy and Administration	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
SOCL 1220	Sociology of Boston	
SOCL 1247	Urban Social Problems	
SOCL 2358	Current Issues in Cities and Suburbs	
SOCL 3418	Greater Boston Urban Policy Seminar	
SOCL 3455	Seminar in Urban Sociology	
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 and a certificate for graduate students who wish to explore gender and sexuality and its relation to other axes of power and identity, including race, class, and ethnicity. 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.

Program Requirements

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

Required Course

WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	4
-----------	--------------------------------------------------------	---

Elective Courses

At least one course must be at the 2000 level or above and courses must come from at least two departments.

Complete three of the following: 12

AFRS 1185	Gender in the African Diaspora	
ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective	
CINE 3500	Film Theory	
CINE 3392	Gender and Film	
COMM 1131	Sex, Relationships, and Communication	
CLTR 2475	Gender in Latin American Film	
COMM 2304	Communication and Gender	
COMM 3304	Communication and Inclusion (formerly COMM 1304)	
COMM 3530	Communication and Sexualities	
COMM 3610	Communication, Politics, and Social Change	
CRIM 4010	Gender, Crime, and Justice	
ENGL 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
HIST 2372	Gender and Society in Modern Europe	
HIST 2373	Gender and Sexuality in World History	
WMNS 2373	Gender and Sexuality in World History	

HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy
HUSV 2900	Gender Violence: Bystander Education Theory and Practice
HUSV 5100	Sexual Violence: Counseling, Programs, and Policy
INTL 2400	Politics of Islam and Gender
INTL 2480	Women and World Politics
JWSS 2259	Sex and Gender in the Jewish Experience
LING 3456	Language and Gender
MUSC 1106	Women in Music
MUSC 1139	Popular Music, Sexuality, and the New Global Order
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions
PHIL 1150	Sex, Power, and Oppression: An Introduction
PHIL 1271	Sex in Judaism, Christianity, and Islam
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity
PHIL 1281	Islam, Gender, and Fashion
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
PSYC 1200	Psychology of Women
SOCL 1255	Sociology of the Family
SOCL 1256	Violence in the Family
SOCL 1260	Gender in a Changing Society
SOCL 1273	Sociology of Gender and Work
SOCL 2268	Social Movements
SOCL 3402	Feminist Perspectives on Society
SOCL 4520	Race, Class, and Gender
SOCL 4523	Sexualities
SOCL 4530	Seminar in the Family
WMNS 1101	Sex, Gender, and Popular Culture
WMNS 1185	Gender in the African Diaspora
WMNS 1255	Sociology of the Family
WMNS 1260	Gender in a Changing Society
WMNS 1271	Sex in Judaism, Christianity, and Islam
WMNS 1990	Elective
WMNS 2259	Sex and Gender in the Jewish Experience
WMNS 2302	Gender and Sexuality: A Cross-Cultural Perspective
WMNS 2304	Communication and Gender
WMNS 2480	Women and World Politics
WMNS 2505	Digital Feminisms
MSCR 2505	Digital Feminisms
WMNS 2800	Sexual Orientation and Gender Expression in Practice and Policy
WMNS 2990	Elective
WMNS 3100	Gender, Social Justice, and Transnational Activism
WMNS 3304	Communication and Inclusion
WMNS 3402	Feminist Perspectives on Society

WMNS 3441	Topics in Women's, Gender, and Sexuality Studies
WMNS 3451	Women's Studies Module
WMNS 3500	Sexuality, Gender, and the Law
PHIL 3500	Sexuality, Gender, and the Law
WMNS 3990	Elective
WMNS 4990	Elective
WMNS 4991	Research
WMNS 4992	Directed Study
WMNS 4993	Independent Study
WMNS 4994	Internship
WMNS 4996	Experiential Education Directed Study

GPA Requirement

2.000 GPA required in the minor

African-American Studies

Website (<http://www.northeastern.edu/daas>)

Chris W. Gallagher, PhD
Professor and Interim Chair

201 Renaissance Park
617.373.3148
617.373.2625 (fax)
daas@northeastern.edu

The Department of African-American Studies is an interdisciplinary department with a mission of teaching and conducting research in social sciences and humanities fields on the historical and contemporary experience of Africans and African-Americans throughout the Diaspora. The department offers a major and a minor in African-American studies, a minor in African studies, and a host of elective courses. International studies and contemporary public policy issues, particularly health-related and international development issues, are also integral elements of the program. All courses are open to all students. Department faculty lead intensive, summer study-abroad programs to Ghana, Kenya, the Caribbean, and other parts of the African Diaspora.

Academic Progression Standards

Same as university-wide standards described under "Academic Status (p. 28)."

Programs

Bachelor of Arts (BA)

- African-American Studies (p. 582)

Bachelor of Science (BS)

- African-American Studies (p. 584)

Minor

- African Studies (p. 586)
- African-American Studies (p. 586)

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

African-American Studies Major Requirements

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	Early African-American Literature	4
-----------	-----------------------------------	---

Research and Seminar

AFRS 3310	Applied Research in the African Diaspora	4
AFAM 4700	Advanced Seminar	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
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

African-American Studies, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

African-American Studies Major Requirements**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	Early African-American Literature	4
-----------	-----------------------------------	---

Research and Seminar

AFRS 3310	Applied Research in the African Diaspora	4
AFAM 4700	Advanced Seminar	4

Electives

Complete six African-American studies courses at the intermediate and advanced level from the following:

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.

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

African Studies, Minor

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

Required Course

AFRS 1101	Introduction to African Studies (A grade of C or higher is required)	4
-----------	----------------------------------------------------------------------	---

Social Sciences

Complete two of the following: 8

AFAM 3441	Third World Political Relations
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 3428	African Languages
AFRS 3460	Contemporary Government and Politics in Africa
AFRS 3470	Identity and Nationalism in Africa
AFRS 4939	Community Health, Culture, and Development in Kenya
AFRS 4993	Independent Study
ANTH 4510	Anthropology of Africa
INTL 3565	Morocco: History, Cultures, and Economic Development in the Mediterranean Basin
POLS 3487	Politics of Developing Nations

Humanities

Complete two of the following: 8

AFAM 1109	Foundations of Black Culture 1
AFRS 1128	The African Experience through Music
AFRS 1180	African History
AFRS 2391	Modern African Civilization
AFRS 2348	Arts and Culture of Africa

AFRS 2392	African Diaspora
AFRS 3410	Religion and Spirituality in the African Diaspora
AFRS 3428	African Languages
AFRS 3470	Identity and Nationalism in Africa
AFRS 4690	Topics in African History
AFRS 4500	Arts of the African Diaspora
HIST 4690	Topics in African History
SWHL 1101	Elementary Swahili 1

GPA Requirement

2.000 GPA required in the minor

African-American Studies, Minor

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

Required 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
AFRS 3310	Applied Research in the African Diaspora	4
or AFAM 4700	Advanced Seminar	

Elective Course

Complete one additional course in consultation with your advisor.

GPA Requirement

2.000 GPA required in the minor

American Sign Language–English Interpreting

Website (<http://www.northeastern.edu/cssh/asl>)

Dennis R. Cokely, PhD
Professor and Director

225B Renaissance Park
617.373.3064
617.373.3065 (fax)

Dennis R. Cokely, Professor and Director, d.cokely@northeastern.edu

American Sign Language (ASL) is a language used by large numbers of people in the United States and Canada. By mastering ASL, students gain both access to the culture of Deaf America and insights into features of spoken language that are often taken for granted. Learning a modally different language gives students a new sense of the power of language and an appreciation of how it shapes their world. In this way, the mastery of ASL sharpens critical-thinking skills.

The goal of the program is to provide a firm foundation in language, linguistics, culture, and interpreting, plus a broad-based liberal arts education. ASL courses are integral to degrees in human services with a specialization in Deaf studies and in linguistics with a focus on ASL.

Opportunities for ASL–English interpreters continue to increase, due to federal and state legislation. Graduates work as interpreters in such

diverse areas as higher education, business, social service agencies, advanced technology, and theatre.

Northeastern’s National and Regional Interpreter Education Centers seek to enhance the skills of interpreters currently working in the field and to increase the supply of competent interpreters throughout the United States.

Academic Progression Standards

A minimum cumulative GPA of 2.500 overall, a 2.750 GPA in all ASL courses, and no grade lower than a C in AMSL, DEAF, and INTP courses are required to remain in good standing in the major.

Programs

Bachelor of Science (BS)

- American Sign Language (p. 587)
- American Sign Language and Human Services (p. 588)
- American Sign Language and Psychology (p. 588)
- American Sign Language and Theatre (p. 590)

Minor

- American Sign Language (p. 591)

American Sign Language, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

American Sign Language Major Requirements

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
-----------	-------------------------------------------------------	---

Intpreting

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
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
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
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		

American Sign Language 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

American Sign Language and Human Services Combined-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 3500	The Interpreting Profession	2
Interpreting		
INTP 3510	Interpreting Inquiry Texts	4
Human Services		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 4700	Senior Seminar in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	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 Course Work

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	H SVC 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	Summer 1	Hours	Summer 2	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 Psychology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

American Sign Language and Psychology Combined-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
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		
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 2356	Nonverbal Communication	
PSYC 4520	Language and the Brain	
PSYC 4522	Psychology of Reading	
PSYC 4524	Cognitive Development	
PSYC 4526	Categorization and Reasoning	
PSYC 4658	Seminar in Psycholinguistics	
PSYC 4660	Seminar in Cognition	
PSYC 4674	Seminar in Cognitive Neuroscience	
Integrative Course Work		
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
AMSL 1101	4	AMSL 1102	4	Vacation	0
DEAF 1500	4	MATH 1215	4	Vacation	0
PSYC 1101	4	Elective	4		
ENGW 1111	4	Elective	4		
		16	16	0	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
AMSL 2101	4	AMSL 2102	4	Vacation	0
LING 1150	4	DEAF 2700	4	Vacation	0
DEAF 2500	4	PSYC 2320	4		
Elective	4	PSYC 3464	4		
		16	16	0	0
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
AMSL 3101	4	PSYC 4524	4	Vacation	0
Psych Area A elective	4	Psych Area B elective	4	Vacation	0
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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

American Sign Language and Theatre Combined-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
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		
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	Theatre History: Greek Tragedy to Romanticism
-----------	-----------------------------------------------

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	Theatre History: Greek Tragedy to Romanticism
-----------	-----------------------------------------------

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 Cameras
-----------	--------------------

THTR 2346	Viewpoints
-----------	------------

THTR 2360	Stage Makeup
-----------	--------------

THTR 2365	Technical Theatre 2
-----------	---------------------

THTR 2370	Lighting Design for the Stage
-----------	-------------------------------

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 Technique
-----------	---------------------------

Integrative Course Work

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 1250	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
THTR 3500	4 Elective	4
ENGW 3315	4 INTP 4940	4
Elective	4 THTR 2000	1
Elective	4 Elective	4
	17	17

Total Hours: 130

American Sign Language, Minor

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

Required Courses

CLTR 1120	Introduction to Languages, Literature, and Culture	4
DEAF 1500	Deaf People in Society	4

Required Language Courses

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**Elective**

Complete one of the following:		4
AMSL 3101	Advanced ASL 1	
AMSL 3102	Advanced ASL 2	
AMSL 3900	Specialized Instruction in ASL	
AMSL 4900	Specialized Instruction in ASL	
AMSL 4992	Directed Study	
AMSL 4993	Independent Study	

DEAF 1550 Dynamics of the Deaf/Blind Community: Culture, History, and Communication

DEAF 2500 Deaf History and Culture

DEAF 2700 ASL Linguistics

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 major at Northeastern offers undergraduates a broad liberal arts education in the histories, politics, cultures, and societies of Asia. It is designed to promote a cosmopolitan understanding of the regional, national, and local cultures in the fastest-growing continent in the world. Asian studies students are asked to complete two years of an Asian language in addition to pursuing a rigorous course of study covering a number of disciplines and national traditions. Our interdisciplinary program is based on an excellent core of faculty who are drawn from 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 (<http://northeastern.edu/undergraduate/academic-policies-procedures/progression-standards/#status>)."

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; 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. 30)." For template program requirements, visit the myNEU web portal (<http://www.myneu.neu.edu>), click on the "Self-Service" tab, then on "My Degree Audit."

Programs

Bachelor of Arts (BA)

- Asian Studies (p. 592)

Minor

- East Asian Studies (p. 593)

Asian 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Asian Studies Requirements

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	
HIST 1110	Introduction to World History	
INTL 2240	Global Population and Development	
POLS 3487	Politics of Developing Nations	
PPUA 5265	Urban and Regional Policy in Developing Countries	
SOCL 3455	Seminar in Urban Sociology	

Capstone

Complete one of the following:		4
ASNS 4900	Asian Studies Capstone Directed Study	
ASNS 4910	Issues in Modern and Contemporary Asia	
ASNS 4920	Asian Studies Capstone Seminar	

International Experience

Complete a professional or academic experience abroad in consultation with your advisor.

Language and Elective Requirements

Language Courses

Complete the following courses in either Chinese or Japanese: 16

Chinese

Select one of the following:

CHNS 1101	Elementary Chinese 1
CHNS 1201	Elementary Chinese 1—BSIB
CHNS 1301	Elementary Chinese Immersion 1

Select one of the following:

CHNS 1102	Elementary Chinese 2
CHNS 1202	Elementary Chinese 2—BSIB
CHNS 1302	Elementary Chinese Immersion 2

Select one of the following:

CHNS 2101	Intermediate Chinese 1
CHNS 2201	Intermediate Chinese 1—BSIB
CHNS 2301	Intermediate Chinese Immersion 1

Select one of the following:

CHNS 2102	Intermediate Chinese 2
CHNS 2202	Intermediate Chinese 2—BSIB
CHNS 2302	Intermediate Chinese Immersion 2

Japanese

JPNS 1101	Elementary Japanese 1
or JPNS 1301	Elementary Japanese Immersion 1
JPNS 1102	Elementary Japanese 2
or JPNS 1302	Elementary Japanese Immersion 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 1189	Introduction to South Asian History
HIST 1246	World War II in the Pacific
HIST 1252	Japanese Literature and Culture
HIST 1254	Mao's China and After
HIST 1500	Modern Chinese History and Culture
HIST 2243	American Images of China
HIST 2308	Law, Justice, and Society in Modern China
HIST 2351	Modern Japan
HIST 2352	Dictators and Democracy in Japan and Korea
HIST 3452	Global Chinese Migration
HIST 4650	Topics in Asian History

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
POLS 3480	Government and Politics in Japan
POLS 3485	China: Governance and Foreign Policy
INTL 2240	Global Population and Development
POLS 3487	Politics of Developing Nations

PPUA 5265	Urban and Regional Policy in Developing Countries
SOCL 3455	Seminar in Urban Sociology

Language, Literature, and Culture Focus Area

ARCH 1320	Architecture and Global Cultures, 1400 to Present
ARCH 2310	Chinese Architecture 1: Premodern
ARCH 2320	Chinese Architecture 2: Modern
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

East Asian Studies, Minor

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**Core Course**

ASNS 1150	East Asian Studies	4
-----------	--------------------	---

Elective Courses

Complete four of the following courses. 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 1189	Introduction to South Asian History
HIST 1253	History of Vietnam Wars
HIST 1254	Mao's China and After
HIST 1256	Chinese Civilization in Her Eyes
HIST 1500	Modern Chinese History and Culture
HIST 2243	American Images of China
HIST 1252	Japanese Literature and Culture
HIST 2308	Law, Justice, and Society in Modern China

HIST 2351	Modern Japan
HIST 2352	Dictators and Democracy in Japan and Korea
HIST 4650	Topics in Asian History
HIST 4942	East Asian Cultural History Abroad
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
CLTR 2501	Chinese Film: Gender and Ethnicity
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
POLS 3480	Government and Politics in Japan
POLS 3485	China: Governance and Foreign Policy
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**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 courses. 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 1189	Introduction to South Asian History
HIST 1253	History of Vietnam Wars
HIST 1254	Mao's China and After
HIST 1256	Chinese Civilization in Her Eyes
HIST 2243	American Images of China
HIST 1252	Japanese Literature and Culture
HIST 2308	Law, Justice, and Society in Modern China

HIST 3452	Global Chinese Migration
HIST 2351	Modern Japan
HIST 2352	Dictators and Democracy in Japan and Korea
HIST 4650	Topics in Asian History
HIST 4942	East Asian Cultural History Abroad
CLTR 1500	Modern Chinese History and Culture
CLTR 2501	Chinese Film: Gender and Ethnicity
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
POLS 3480	Government and Politics in Japan
POLS 3485	China: Governance and Foreign Policy
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>)

James Alan Fox, PhD

Lipman Family Professor and Interim Director

Amy Farrell, PhD

Associate Professor and Undergraduate Program Director

Natasha Frost, PhD

Associate Professor, Associate Director, and Graduate Program Director

204 Churchill Hall
617.373.3327
617.373.8723 (fax)
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 twentieth century. Nearly one hundred years old, the field has blossomed in large part through the ingenuity of several notable scholars. The School of Criminology and Criminal Justice is pleased to be home to many of the country's preeminent contemporary scholars. School of Criminology and Criminal Justice faculty members regularly present at scholarly conferences, national and international seminars, and to policymakers worldwide.

Academic Progression Standards

Same as university-wide standards described under "Academic Status (p. 28)."

Programs

Bachelor of Science (BS)

- Criminal Justice (p. 594)
- Computer Science and Criminal Justice (p. 597)
- Criminal Justice and Political Science (p. 600)
- Criminal Justice and Psychology (p. 602)
- Human Services and Criminal Justice (p. 603)

Dual Degrees

- Criminal Justice, BS/MS (p. 605)
- Criminal Justice, BS/JD (p. 606)

Minor

- Criminal Justice (p. 607)

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Breadth Courses for Criminal 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	
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 Major Requirements

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

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

Thematic Elective

Complete one of the following:		4
CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1600	Crimes against Humanity	
CRIM 1700	Crime, Media, and Politics	

Survey Electives

Complete two of the following:		8
CRIM 3010	Criminal Violence	
CRIM 3020	Victims of Crime	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Juvenile Justice	
CRIM 3300	Corrections	
CRIM 3400	Security	
CRIM 3500	Policing	
CRIM 3900	Topics in Criminal Justice and Criminology	

System-Wide Elective

Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4030	Criminal Justice Organization and Management	
CRIM 4040	Crime Prevention	

Criminal Justice Open Electives

Complete four courses from the following range:		16
CRIM 4001 to CRIM 7999		

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	

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				
	0		17		8		0

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**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
Computer Science Fundamental Courses		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	4
IS 2000	Principles of Information Science	4

Co-op Preparation Requirement

Complete one of the following consistent with your major:	1
CS 1210 Computer Science/Information Science Overview 2: Co-op Preparation	
or CRIM 2000 Co-op Integration Seminar 1	

Computer Science Elective Courses

Complete three upper-division computer science courses from the following ranges:	12
CS 2500 to CS 7999, but not CS 5010	
IS 2000 to IS 7999, but not IS 4900	
DS 2000 to DS 7999, but not DS 4900	

Presentation Requirement

THTR 1170 The Eloquent Presenter	1
----------------------------------	---

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 Electives		
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	
Complete one course from the following:		4
CRIM 3010	Criminal Violence	
CRIM 3020	Victims of Crime	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Juvenile Justice	
CRIM 3300	Corrections	
CRIM 3400	Security	
CRIM 3500	Policing	
CRIM 3900	Topics in Criminal Justice and Criminology	
Complete one course from the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4030	Criminal Justice Organization and Management	
Complete one additional CRIM Elective		4
Criminal Justice Required Capstone		
CRIM 4949	Senior Capstone Seminar	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 4640	Corporate and White-Collar Crime	
CRIM 4800	Crime Mapping	
CRIM 4900	Advanced Seminar in Criminology and Criminal Justice	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

CCIS Computing and Social Issues

Code	Title	Hours
Complete one of the following:		4
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The Twenty-First-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

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 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

Note: CCIS intentionally makes the total credits required one less than the sum of the credits to allow for a one credit waiver if needed.

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 1800 and CS 1801	4	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	CRIM 2100	4				
ENGW 1111	4	CRIM 2200	4				
CRIM 1100	4						
		18	17	8	4	0	
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 2800 and CS 2801	5	CS 1210 or CRIM 2000	1	ENGW 3302, 3308, or 3315	4	Co-op	
CS 4800	4	CS Elective 1	4	Elective	4		

CRIM 3600	4	CRIM 3700	4
CRIM Elective 1	4	CRIM Elective 2	4
		Elective	4
	17	17	8

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	CS Elective 2	4 Elective	4 Co-op	
	CRIM Elective 3	4 Elective	4	
	CRIM Elective 4	4		
	SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4		
	THTR 1170	1		
	0	17	8	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours
Co-op	CS Elective 3	4 Elective (if needed)	4
	CRIM 4949	4 Elective (if needed)	4
	CRIM 4040, 4630, 4640, 4800, or 4900	4	
	Elective	4	
	0	16	8

Total Hours: 134

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 1801	4 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 CRIM 2100	4		
ENGW 1111	4 CRIM 2200	4		
CRIM 1100	4			
	18	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 2800 and CS 2801	5		Elective	4
CS 4800	4			
CRIM 3600	4			
CRIM Elective 1	4			
	18	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
CRIM Elective 2	4			
Elective	4			
THTR 1170	1			
	17	0	0	8

Year 4

Fall	Hours Spring	Hours Summer 1	Hours
CS Elective 2	4 CS Elective 3	4 Elective (if needed)	4
CRIM Elective 3	4 CRIM 4949	4 Elective (if needed)	4
CRIM Elective 4	4 CRIM 4040, 4630, 4640, 4800, or 4900	4	
	SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4 Elective	4
	16	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 1801	4 CS 2510 and CS 2511	5 Vacation	Vacation	
CS 2500 and CS 2501	5 IS 2000	4		
CS 1200	1 CRIM 2100	4		
ENGW 1111	4 CRIM 2200	4		
CRIM 1100	4			
	18	17	0	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3200	4 CS 1210 or CRIM 2000	1 Vacation	Co-op	
CS 3500	4 CS 2800 and CS 2801	5		
CS 4800	4 CRIM 3700	4		
CRIM 3600	4 CRIM Elective 1	4		
	CRIM Elective 2	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, or 3315	4 Co-op	
	CRIM Elective 3	4 Elective	4	

SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	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	
	CRIM Elective 4	4 Elective	4	
	CRIM 4040, 4630, 4640, 4800, or 4900	4		
	Elective	4		
	0	16	8	0

Year 5

Fall	Hours Spring	Hours
Co-op	CS Elective 3	4
	CRIM 4949	4
	Elective	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 1801	4 CS 2510 and CS 2511	5 Vacation	Vacation	
CS 2500 and CS 2501	5 IS 2000	4		
CS 1200	1 CRIM 2100	4		
ENGW 1111	4 CRIM 2200	4		
CRIM 1100	4			
	18	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 3200	4			
CS 3500	4			
CS 4800	4			
CRIM 3600	4			
	17	0	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800 and CS 2801	5 Co-op	Co-op	ENGW 3302, 3308, or 3315	4
CRIM 3700	4		Elective	4

CRIM Elective 1	4			
CRIM Elective 2	4			
THTR 1170	1			
	18	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
CRIM Elective 3	4		Elective	4
SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4			
Elective	4			
	16	0	0	8

Year 5

Fall	Hours Spring	Hours
CS Elective 2	4 CS Elective 3	4
CRIM Elective 4	4 CRIM 4949	4
CRIM 4040, 4630, 4640, 4800, or 4900	4 Elective	4
Elective	4 Elective	4
	16	16

Total Hours: 134

Criminal Justice 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.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 1600	Crimes against Humanity	
CRIM 1700	Crime, Media, and Politics	

Survey Elective

Complete one of the following: 4

CRIM 3010 to CRIM 3500		
CRIM 3900	Topics in Criminal Justice and Criminology	

System-Wide Elective

Complete one of the following: 4

CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4030	Criminal Justice Organization and Management	

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 2326	Premodern Political Thought	
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.

Code	Title	Hours
------	-------	-------

Option A*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: 20

POLS 2300 to POLS 5999		
------------------------	--	--

Option B*Research Methods*

POLS 2399	Research Methods in Political Science	4
-----------	---------------------------------------	---

POLS 2400	Quantitative Techniques	4
-----------	-------------------------	---

Criminal Justice Electives

Complete three courses in the following: 12

CRIM 4001 to CRIM 4999		
------------------------	--	--

Political Science Electives

Complete four courses in the following: 20

POLS 2300 to POLS 5999		
------------------------	--	--

Option C*Research Methods*

Complete one of the following sequences: 8

CRIM 3600	Criminal Justice Research Methods and POLS 2400	Quantitative Techniques
-----------	-------------------------------------------------	-------------------------

CRIM 3700	Criminal Justice Statistics and POLS 2399	Research Methods in Political Science
-----------	-------------------------------------------	---------------------------------------

Criminal Justice Electives

Complete two courses from the following range: 8

CRIM 4001 to CRIM 4999		
------------------------	--	--

Political Science Electives

Complete four courses in the following: 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. 602).

- American Political Institutions
- Campaigns and Elections
- Identity, Culture, and Politics
- Law and Legal Studies
- Security Studies

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 4110	Legal Philosophy	
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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415 or POLS 3418	Ethnic Political Violence Nationalism	4

Electives

Complete three of the following: 12		
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	

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 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	
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**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 1600	Crimes against Humanity	
CRIM 1700	Crime, Media, and Politics	

Survey Elective

Complete one of the following: 4

CRIM 3010	Criminal Violence	
CRIM 3020	Victims of Crime	
CRIM 3030	Global Criminology	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Juvenile Justice	
CRIM 3300	Corrections	
CRIM 3400	Security	
CRIM 3500	Policing	

System-Wide Elective

Complete one of the following: 4

CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4030	Criminal Justice Organization and Management	
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 from the following range: 8

CRIM 4000 to CRIM 5999

Psychology Major 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 4652	Seminar in Ethics in Psychology	
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	

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

Human Services 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 1600	Crimes against Humanity	
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 3570	Strategic Philanthropy and Nonprofit Management	4
HUSV 2300	Counseling in Human Services	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
or CRIM 4030	Criminal Justice Organization and Management	

Survey Electives

Complete two of the following: 8

CRIM 3010	Criminal Violence	
CRIM 3020	Victims of Crime	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Juvenile Justice	
CRIM 3300	Corrections	
CRIM 3400	Security	
CRIM 3500	Policing	
CRIM 3900	Topics in Criminal Justice and Criminology	

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 4030	Criminal Justice Organization and Management	
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 Seminar1/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

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		
	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, BS/MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Breadth Courses for Criminal 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	
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 Requirement

Complete three courses from the same department, two of which must be numbered 2000 or above.

Criminal Justice Major Requirements

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

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

Thematic Elective

Complete one of the following: 4

CRIM 1300	The Death Penalty	
CRIM 1400	Human Trafficking	
CRIM 1500	Corruption, Integrity, and Accountability	
CRIM 1600	Crimes against Humanity	
CRIM 1700	Crime, Media, and Politics	

Survey Elective

Complete two of the following: 8

CRIM 3010	Criminal Violence	
CRIM 3020	Victims of Crime	
CRIM 3030	Global Criminology	

CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Juvenile Justice	
CRIM 3300	Corrections	
CRIM 3400	Security	
CRIM 3500	Policing	
CRIM 3900	Topics in Criminal Justice and Criminology	

System-Wide Elective

Complete one of the following: 4

CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4030	Criminal Justice Organization and Management	
CRIM 4040	Crime Prevention	

Graduate Course Work to be taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Graduate Electives

Complete 12 to 16 semester hours in the following ranges: 12-16

CRIM 7000 to CRIM 7699	
CRIM 7800 to CRIM 7996	
CRIM 8400 to CRIM 8499	

Program Requirements

128 total semester hours required for the bachelor's degree

Minimum 3.000 GPA required in all graduate courses

Criminal Justice, BS/JD

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, consult your advisor.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Breadth Courses for Criminal 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
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 Requirement

Complete three courses from the same department, two of which must be numbered 2000 or above or complete a minor.

Criminal Justice Major Requirements

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

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

Thematic Elective

Complete one of the following: 4

CRIM 1300	The Death Penalty
CRIM 1400	Human Trafficking
CRIM 1500	Corruption, Integrity, and Accountability
CRIM 1600	Crimes against Humanity
CRIM 1700	Crime, Media, and Politics

Survey Electives

Complete two of the following: 8

CRIM 3010	Criminal Violence
CRIM 3020	Victims of Crime
CRIM 3030	Global Criminology
CRIM 3040	Psychology of Crime
CRIM 3050	Organized Crime
CRIM 3100	Criminal Law

CRIM 3200	Juvenile Justice
CRIM 3300	Corrections
CRIM 3400	Security
CRIM 3500	Policing
CRIM 3900	Topics in Criminal Justice and Criminology

System-Wide Elective

Complete one of the following: 4

CRIM 4010	Gender, Crime, and Justice
CRIM 4020	Race, Crime, and Justice
CRIM 4030	Criminal Justice Organization and Management
CRIM 4040	Crime Prevention

Law Course Work to be taken as an Undergraduate Student

FOURTH UNDERGRADUATE YEAR

Complete 34 semester hours of law course work in consultation with your advisor.

Criminal Justice Credit Requirement

Complete 59 credit hours in the major.

Program Requirements

132 total semester hours required for the bachelor's degree

Criminal Justice, Minor

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

Required Courses

CRIM 1100	Introduction to Criminal Justice	4
CRIM 2100	Criminal Due Process	4
CRIM 2200	Criminology	4

Criminal Justice Electives

Complete two of the following: 8

CRIM 3010	Criminal Violence
CRIM 3020	Victims of Crime
CRIM 3030	Global Criminology
CRIM 3040	Psychology of Crime
CRIM 3050	Organized Crime
CRIM 3100	Criminal Law
CRIM 3200	Juvenile Justice
CRIM 3300	Corrections
CRIM 3400	Security
CRIM 3500	Policing
CRIM 4010	Gender, Crime, and Justice
CRIM 4020	Race, Crime, and Justice
CRIM 4030	Criminal Justice Organization and Management
CRIM 4040	Crime Prevention
CRIM 4100	Juvenile Law
CRIM 4110	Legal Philosophy
CRIM 4120	Courts and Sentencing
CRIM 4300	Community-Based Corrections

CRIM 4310	Correctional Intervention
CRIM 4400	Security Management, Supervision
CRIM 4500	Police Strategy
CRIM 4610	Youth Gangs
CRIM 4630	Political Crime and Terrorism
CRIM 4640	Corporate and White-Collar Crime
CRIM 4710	Law and Psychology

GPA Requirement

2.000 GPA required in the minor

Economics

Website (<http://www.northeastern.edu/cssh/economics>)

William T. Dickens, PhD

University Distinguished Professor and Interim Chair

301 Lake Hall
617.373.2882
617.373.3640 (fax)
econ@northeastern.edu

Economics is the study of how societies produce and exchange goods and services to satisfy material needs. Undergraduates may study economics as part of a broad interest in the social sciences to develop specialized skills useful in today's complex labor market. The major in economics is 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 the economic development 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, 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:

The following three core courses should be completed first: 12

ECON 1115	Principles of Macroeconomics	12
ECON 1116	Principles of Microeconomics	
MATH 1231	Calculus for Business and Economics	

The following three core courses should be completed by the end of sophomore year: 12

ECON 2315	Macroeconomic Theory	
ECON 2316	Microeconomic Theory	
ECON 2350	Statistics	

Within two semesters of completing the above three courses, one of the following two core courses should be completed: 4

ECON 3520	History of Economic Thought (for BA students)	4
ECON 3560	Applied Econometrics (for BS students)	

For BA majors, grades earned in the following five core courses must average to a 2.000 grade-point average (GPA) or better:

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

For BS majors, grades earned in the following five core courses must average to a 2.000 GPA or better:

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 advisor.

Programs

Bachelor of Arts (BA)

- Economics (p. 609)
- International Affairs and Economics (p. 612)
- Political Science and Economics (p. 616)

Bachelor of Science (BS)

- Economics (p. 610)
- Economics and Business Administration (p. 621)
- Economics and Mathematics (p. 624)

- Economics and Philosophy (p. 624)
- Environmental Studies and Economics (p. 625)
- Political Science and Economics (p. 619)
- Politics, Philosophy, and Economics (p. 575)

Dual Degrees

- Economics, BA/MA (p. 626)
- Economics, BS/MA (p. 628)

Minor

- Economics (p. 629)

Economics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Breadth Courses for Economics Major

Calculus

MATH 1231	Calculus for Business and Economics	4
-----------	-------------------------------------	---

Computer Science

CS 1100	Computer Science and Its Applications	4
---------	---------------------------------------	---

Economics Major Requirements for BA

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 3520	History of Economic Thought	4

Senior Seminar

ECON 4692	Senior Economics Seminar	4
-----------	--------------------------	---

Experiential Learning Requirement for Economics

Note: ECON 4992 or ECON 4996 can double-count for an economics elective in the major.

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 Electives for BA

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 3560	Applied Econometrics
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 4993	Independent Study
ECON 4994	Internship
ECON 4996	Experiential Education Directed Study

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
ECON 1000	1	ECON 1116	4	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
ECON 3520	4	ECON 2316	4	Vacation	0
ECON 2350	4	ECON undergraduate elective	4		
				0	
				0	

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

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**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Breadth Courses for Economics Major**Calculus**

MATH 1231	Calculus for Business and Economics	4
-----------	-------------------------------------	---

Computer Science

CS 1100	Computer Science and Its Applications	4
---------	---------------------------------------	---

Economics Major Requirements for BS

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 3560	Applied Econometrics	4

Senior Seminar

ECON 4692	Senior Economics Seminar	4
-----------	--------------------------	---

Experiential Learning Requirement for Economics

Note: ECON 4992 or ECON 4996 can double-count for an economics elective in the major.

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	

Electives for BS in Economics

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 4993	Independent Study	
ECON 4994	Internship	
ECON 4996	Experiential Education Directed Study	

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	
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 undergraduate elective	4				
Elective	4	Elective	4				
Elective	4	Elective	4				
		EESH 2000	1				
		16		17		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	
Year 4							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	ECON 3560	4	ECON undergraduate elective	4	Co-op	0
		ECON undergraduate elective	4	Elective	4		
		Elective	4				
		Elective	4				
		0		16		8	
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

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	Elective	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 3560	4	ECON 4692	4
ECON undergraduate elective	4	ECON undergraduate elective	4
Elective	4	Elective	4

Elective	4	Elective	4
16		16	

Total Hours: 130

International Affairs and Economics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

International Affairs Requirements

Code	Title	Hours
International Affairs/Economics at Northeastern		
INTL 1000 or ECON 1000	International Affairs at Northeastern Economics at Northeastern	1

Required Courses

INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1160	International Relations	4
ANTH 1101 or HIST 2211	Peoples and Cultures The World Since 1945	4

Global Dynamics

Complete three of the following courses with one course numbered 2000 or above:¹ 10-12

INTL 1185 or AFRS 1185	Gender in the African Diaspora Gender in the African Diaspora	
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2400	Politics of Islam and Gender	
INTL 2480 or WMNS 2480	Women and World Politics Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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
ANTH 3415	Anthropology of Travel and Tourism
COMM 2303	Global and Intercultural Communication
MSCR 2325	Global Media
COMM 5240	Global and Intercultural Media
CLTR 1515	Comparative Analysis of the Lusophone World and Culture
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 1110	Introduction to World History
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
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2317	Comparative Urban Histories
HIST 2398	Radicals, Terrorists, and Insurgents
HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HUSV 4920	International Human Services
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 1127	Introduction to World Music
MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace

PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

¹ Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. International Relations (POLS 1160) may not be used as a global dynamics course.

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 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4

ANTH 4510	Anthropology of Africa	4	POLS 4917	Model European Union	4
or INTL 4510	Anthropology of Africa		SOCL 4535	European Union: Social and Political	4
ENTR 3306	Global Entrepreneurship	4	Latin America		
ENTR 3308	Business Economic History of South Africa	4	AFAM 2301	Foundations of Black Culture 2	4
HIST 1180	African History	4	AFAM 2345	The Black Experience in the Caribbean	4
HIST 2390	Africa and the World in Early Times	4	AFAM 4507	Afro-Cuban Culture—International Study	4
HIST 2397	Modern Africa	4	ANTH 4500	Latin American Society and Development	4
MUSC 1128	Music of Africa	4	or INTL 4500	Latin American Society and Development	
Asia			CLTR 1505	Introduction to Latin American Culture	4
ANTH 4350	Ethnography of Southeast Asia	4	CLTR 1508	Cuban History and Culture through Film	4
or INTL 4350	Ethnography of Southeast Asia		CLTR 1509	An Introduction to Afro-Cuban Culture	4
ASNS 1150	East Asian Studies	4	CLTR 1240	Latin American Film	4
ASNS 4910	Issues in Modern and Contemporary Asia	4	CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 1500	Modern Chinese History and Culture	4	CLTR 4508	Cuban History through Film—International Study	4
CLTR 1506	Introduction to Chinese Popular Culture	4	ENTR 3316	Microfinance and Economic Development in Latin America	4
CLTR 1700	Introduction to Japanese Pop Culture	4	ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4	ENTR 3326	Sustainability in the Latin American Business Environment	4
HIST 1189	Introduction to South Asian History	4	ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1252	Japanese Literature and Culture	4	HIST 1187	Introduction to Latin American History	4
HIST 1253	History of Vietnam Wars	4	HIST 1260	Modern Latin America	4
HIST 1254	Mao's China and After	4	LACS 1220	Latino, Latin American, and Caribbean Studies	4
HIST 1500	Modern Chinese History and Culture	4	LITR 1260	Caribbean Literature and Culture	4
HIST 2351	Modern Japan	4	LITR 4655	Latin American Literature	4
HIST 2352	Dictators and Democracy in Japan and Korea	4	POLS 3475	Government and Politics in Latin America	4
HIST 3452	Global Chinese Migration	4	Middle East		
HIST 4942	East Asian Cultural History Abroad	4	INTL 1160	Middle East Studies	4
POLS 3485	China: Governance and Foreign Policy	4	INTL 2100	Modern Israel	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4	INTL 2200	America and the Middle East	4
PHIL 1290	Chinese Philosophy and Religion	4	INTL 2360	Human Rights in the Middle East	4
PHIL 2394	Chinese Buddhism	4	INTL 2400	Politics of Islam and Gender	4
PHIL 2395	Japanese Buddhism	4	INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
PHIL 4545	Religion and Politics in South Asia	4	CLTR 1502	Introduction to Arabic Culture	4
Europe			ECON 1292	Economic History of the Middle East	4
CLTR 1501	Introduction to French Culture	4	HIST 1185	Introduction to Middle Eastern History	4
CLTR 1503	Introduction to Italian Culture	4	HIST 1290	Modern Middle East	4
CLTR 1504	Introduction to Spanish Culture	4	HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
CLTR 2280	French Film and World War II: The German Occupation of France	4	HIST 4945	North African History Abroad	4
ECON 1293	European Economic History	4	JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4	POLS 3465	Government and Politics in the Middle East	4
HIST 1270	Ancient Greece	4	POLS 3470	Arab-Israeli Conflict	4
HIST 1271	Ancient Rome	4	POLS 4915	Model Arab League	4
HIST 2280	Hitler, Germany, and the Holocaust	4	PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
HIST 2371	Europe 1870–1921	4			
HIST 2372	Gender and Society in Modern Europe	4			
HIST 2376	The British Empire	4			
HIST 4946	Independent Field Research Abroad: Central Europe	4			
POLS 3435	Politics and Governance of Europe and the European Union	4			

PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4
Russia		
HIST 1285	Introduction to Russian Civilization	4
HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215	Society and Culture in Russia	4
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.

Breadth Requirements for Economics

Code	Title	Hours
Calculus		
MATH 1231	Calculus for Business and Economics	4
Computer Science		
CS 1100	Computer Science and Its Applications	4

Economics Requirements

Code	Title	Hours
Required Economics Courses		
Grades in the following 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 3520	History of Economic Thought	4

Economics Electives

Complete three of the following courses with a minimum of one numbered 3000 or above. Courses used to satisfy international affairs requirements may not be used as economics electives:

Code	Title	Hours
ECON 1230	Healthcare and Medical Economics	
ECON 1290	History of the Global Economy	
ECON 1292	Economic History of the Middle East	
ECON 1293	European Economic History	
ECON 3404	International Food Economics and Policy	
ECON 3405	A Critique of Capitalism	
ECON 3406	Critical Perspectives on Economics	
ECON 3415	Poverty and Income	
ECON 3422	Economics of Transportation	
ECON 3423	Environmental Economics	

ECON 3560	Applied Econometrics
ECON 4634	Comparative Economics
ECON 4635	International Economics
ECON 4650	Economic Growth and Applications

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
INTL 1000	1	MATH 1231	4	Vacation	0
INTL 1101	4	ECON 1116	4	Vacation	0
ECON 1115	4	POLS 1160	4		
ENGW 1111	4	POLS 1161	0		
Foreign language core course	4	HIST 2211	4		
		17		16	
				0	

Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
ECON 3520	4	ECON 2350	4	Vacation	0
CS 1100	4	INTL elective	4	Co-op	0
INTL elective	4	Foreign language core course	4		
Foreign language core course	4	ECON 2316	4		
		16		16	
				0	

Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	INTL 3400	4	INTL elective	4
		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 undergraduat 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**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Requirements for BA

All undergraduate students are required to complete the BA language requirements (p. 37).

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

Political Theory

Complete one of the following:	4
POLS 2330	American Political Thought
POLS 2326	Premodern 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 2355	Intergovernmental Relations

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. 617).

- American Political Institutions
- Campaigns and Elections
- International Relations and Diplomacy
- Public Policy

Economics Major 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 of the following. At least one course must be at or above the intermediate level: 12

ECON 1230	Healthcare and Medical Economics	
ECON 1240	Economics of Crime	
ECON 1260	Contested Issues in the U.S. Economy	
ECON 1270	Economic Status of Ethnic Minorities	
ECON 1290	History of the Global Economy	
ECON 3404	International Food Economics and Policy	
ECON 3415	Poverty and Income	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3424	Law and Economics	
ECON 3440	Public Finance	
ECON 3461	Government and Business	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	

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	

Quantitative Techniques/Statistics

Complete either of the statistics and departmental elective combinations listed below:

Code	Title	Hours
------	-------	-------

Combination A

Statistics

POLS 2400	Quantitative Techniques	4
-----------	-------------------------	---

Economics

Complete one of the following: 4

ECON 3404	International Food Economics and Policy	
ECON 3415	Poverty and Income	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 3461	Government and Business	
ECON 3490	Public Choice Economics	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	

Code	Title	Hours
------	-------	-------

Combination B

Statistics

ECON 2350	Statistics	4
-----------	------------	---

Political Science

Complete one course from the following range: 4

POLS 2401 to POLS 5999

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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations
POLS 3310	Public Opinion, Voting, and Elections
POLS 3162	Local Campaigns and Elections
POLS 3320	Politics and Mass Media
POLS 3402	Survey Research and Polling
POLS 3304	Presidential Nominating Process

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 4917	Model European Union
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 3409	Global Governance
POLS 3435	Politics and Governance of Europe and the European Union
POLS 3445	Politics in Central and Eastern Europe
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 2385	U.S. Health and Welfare Policy
POLS 2390	Science, Technology, and Public Policy
POLS 2395	Environmental Politics and Policy
POLS 3315	Interest Groups and Public Policy

POLS 3402	Survey Research and Polling
POLS 3410	Nontraditional Security Issues
POLS 3412	Homeland Security Policy and Politics
POLS 3425	U.S. Foreign Policy
POLS 4948	Community-Based Research Practicum

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				
Foreign language core course	4	ECON 1116	4				
		16		16		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	Foreign language core course	4				
Foreign language core course	4						
		16		16		0	

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ENGW 3315	4	Elective	4	Vacation	0	Vacation	0
POLS 2326	4	POLS intermediate/advanced undergraduate elective	4				
ECON 2316	4	Elective	4				
ECON undergraduate elective	4	Elective	4				
		16		16		0	

Year 4

Fall	Hours	Spring	Hours
ECON 3560	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 Economics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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
Political Theory		
Complete one of the following:		4
POLS 2330	American Political Thought	
POLS 2326	Premodern 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 2355	Intergovernmental Relations	
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. 620).

- American Political Institutions
- Campaigns and Elections

- International Relations and Diplomacy
- Public Policy

Economics Major 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 3560	Applied Econometrics	4
Economics Electives		
Complete three of the following. At least one course must be numbered ECON 3000 or above:		12
ECON 1230	Healthcare and Medical Economics	
ECON 1240	Economics of Crime	
ECON 1260	Contested Issues in the U.S. Economy	
ECON 1270	Economic Status of Ethnic Minorities	
ECON 1290	History of the Global Economy	
ECON 3404	International Food Economics and Policy	
ECON 3415	Poverty and Income	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3424	Law and Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 3461	Government and Business	
ECON 3490	Public Choice Economics	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	

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	

Quantitative Techniques/Statistics

Complete either of the statistics and departmental elective combinations listed below:

Code	Title	Hours
Combination A		
<i>Statistics</i>		
POLS 2400	Quantitative Techniques	4
<i>Economics</i>		
Complete one of the following:		4

ECON 3404	International Food Economics and Policy
ECON 3415	Poverty and Income
ECON 3420	Urban Economic Issues
ECON 3423	Environmental Economics
ECON 3425	Energy Economics
ECON 3440	Public Finance
ECON 3461	Government and Business
ECON 3490	Public Choice Economics
ECON 4634	Comparative Economics
ECON 4635	International Economics

Code	Title	Hours
Combination B		
<i>Statistics</i>		
ECON 2350	Statistics	4
<i>Political Science</i>		
Complete one course from the following range:		4
POLS 2401 to POLS 5999		

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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	

POLS 3304	Presidential Nominating Process
-----------	---------------------------------

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
<i>Core Courses</i>		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

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	Hours
POLS 1160	4	POLS 2400	4	Vacation	0	Vacation	0	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		0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	Hours
ENGW 3315	4	Elective	4	Vacation	0	Vacation	0	0
POLS 2326	4	POLS intermediate/advanced undergraduate elective	4					
ECON 2316	4	Elective	4					
ECON undergraduate elective	4	Elective	4					
	16		16	0		0		0

Year 4

Fall	Hours	Spring	Hours
ECON 3560	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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Economics Requirements

Grades in required economics courses must average a minimum GPA of 2.000.

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 3560	Applied Econometrics	4
ECON 2350	Statistics	4
or MGSC 2301	Business Statistics	

Economics Electives

Complete four courses from the following lists with no more than one at the introductory level: 16

<i>Introductory</i>		
ECON 1200 to ECON 1990		
<i>Intermediate/Advanced</i>		
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

Additional Requirements

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

Business Concentration

Complete one of the following business concentrations. Requirements for the concentrations are listed below (p. 622).

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Management Information Systems
- Marketing
- Supply Chain Management

Business Cooperative Education Requirement

Complete one six-month co-op experience.

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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	
ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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 4410	Human Resources and Workforce Analytics	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

CONCENTRATION IN FINANCE

Code	Title	Hours
Required Course		
FINA 3301 or FINA 3303	Corporate Finance Investments	4
Electives		
Complete three of the following:		12
ENTR 3520 or FINA 2720	Impact Investing and Social Finance 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 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 4518	Risk Management and Insurance	
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		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
MGMT 3510	Managing Global Teams Virtually and Locally	
MGMT 3530	Project Management	
MGMT 4310	The Management Practices of Great Organizations	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4
MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Economics Requirements

Code	Title	Hours
Introduction to College		
ECON 1000 or MATH 1000	Economics at Northeastern Mathematics at Northeastern	1
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 3560	Applied Econometrics	4
Economics Electives		
Complete four economics electives with not more than two at the introductory level:		16
<i>Introductory</i>		
ECON 1200 to ECON 1990		
<i>Intermediate/Advanced</i>		
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:		
ECON 1115	Principles of Macroeconomics	
ECON 1116	Principles of Microeconomics	
ECON 2315	Macroeconomic Theory	
ECON 2316	Microeconomic Theory	
ECON 3560	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

Program Requirements

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

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 3520	History of Economic Thought	4
ECON 3560	Applied Econometrics	4

Economics Electives

Complete two of the following with at least one numbered 3000 or above: 8

ECON 1240	Economics of Crime	
ECON 1281	Economics of the Creative Industries	
ECON 1290	History of the Global Economy	
ECON 3405	A Critique of Capitalism	
ECON 3424	Law and Economics	
ECON 4681	Information Economics and Game Theory	

Philosophy Requirements

Code	Title	Hours
------	-------	-------

Philosophy Required Courses

PHIL 1115	Introduction to Logic	4
or PHIL 1215	Symbolic Logic	
PHIL 2325	Ancient Philosophy and Political Thought	4
PHIL 2330	Modern Philosophy	4

Advanced Philosophy Elective

Complete one of the following: 4

PHIL 3435	Moral Philosophy	
PHIL 3436	History of Modern Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4535	Philosophy of Mind	

Additional Electives

Complete three additional electives in philosophy or religion. At least one must be numbered 2000 or above. 12

Integrative Requirement

Code	Title	Hours
Complete two of the following that have not been used in above requirements:		8

PHIL 3435	Moral Philosophy	
PHIL 4510	Philosophy of Science	
PHIL 4500	Theory of Knowledge	
PHIL 5001	Global Justice	
PHIL 5003	Ethics, Justice, and Global Climate Change	
PHIL 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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 3423	Environmental Economics	4
ECON 3560	Applied Econometrics	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
ECON 4650	Economic Growth and Applications
PPUA 5260	Ecological Economics

Environmental Studies Requirements

Code	Title	Hours
Social Science Component		
PHIL 1180 or PHIL 3480	Environmental Ethics Environmental Philosophy	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	Environment and Humankind	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, BA/MA

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Requirements for BA

All undergraduate students are required to complete the BA language requirements (p. 37).

Breadth Courses for Economics Major

Calculus		
MATH 1231	Calculus for Business and Economics	4
Computer Science		
CS 1100	Computer Science and Its Applications	4

Economics Major Requirements for BA

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 3520	History of Economic Thought	4
Senior Seminar		
ECON 4692	Senior Economics Seminar	4

Experiential Learning Requirement for Economics

Note: ECON 4992 or ECON 4996 can double-count for an economics elective in the major.

Complete one of the following, 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 Electives for BA

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 3560	Applied Econometrics	
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 4993	Independent Study	
ECON 4994	Internship	
ECON 4996	Experiential Education Directed Study	
ECON 5105	Math and Statistics for Economists	
ECON 5110	Microeconomic Theory	

Graduate Course Work to Be Taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Required Economics Courses

ECON 5105	Math and Statistics for Economists	4
ECON 5110	Microeconomic Theory	4
ECON 5120	Macroeconomic Theory	4
ECON 5140	Applied Econometrics	4

Economics Major Credit Requirement

Complete 72 semester hours in the major.

Program Requirements

128 total semester hours required for the bachelor's degree

Minimum 3.000 GPA required in all graduate courses

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

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	CS 1100	4				
ENGW 1111	4	Foreign language core course	4				
MATH 1231	4	Elective	4				
Foreign language core course	4						
		17		16		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	
Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 2350	4	Co-op	0	Co-op	0	ECON undergraduate elective	4
ECON 2316	4					Elective	4
ENGW 3308	4						
Elective	4						
		16		0		0	
Year 4							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON undergraduate elective	4	Co-op	0	Co-op	0	Vacation	0
Elective	4						
Elective	4						
Elective	4						
		16		0		0	
Year 5							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
ECON 5105	4	ECON 4692	4	Vacation	0	Vacation	0
ECON 5110	4	ECON 5120	4				
Elective	4	ECON 5140	4				
Elective	4	Elective	4				
		16		16		0	

Year 6

Fall	Hours	Spring	Hours
ECON graduate elective	4	ECON graduate elective	4
ECON graduate elective	4	ECON graduate elective	4
	8		8

Total Hours: 146

Economics, BS/MA**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Breadth Courses for Economics Major**Calculus**

MATH 1231	Calculus for Business and Economics	4
-----------	-------------------------------------	---

Computer Science

CS 1100	Computer Science and Its Applications	4
---------	---------------------------------------	---

Economics Major Requirements for BS**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 3560	Applied Econometrics	4

Senior Seminar

ECON 4692	Senior Economics Seminar	4
-----------	--------------------------	---

Experiential Learning Requirement for Economics

Note: ECON 4992 or ECON 4996 can double-count for an economics elective in the major.

Complete one of the following, 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

Electives for BS in Economics

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 4993	Independent Study
ECON 4994	Internship
ECON 4996	Experiential Education Directed Study
ECON 5105	Math and Statistics for Economists
ECON 5110	Microeconomic Theory
ECON 5140	Applied Econometrics

Graduate Course Work to Be Taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Required Economics Courses

ECON 5105	Math and Statistics for Economists	4
ECON 5110	Microeconomic Theory	4
ECON 5120	Macroeconomic Theory	4
ECON 5140	Applied Econometrics	4

Economics Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required for the bachelor's degree
Minimum 3.000 GPA required in all graduate courses

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

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	CS 1100	4				
ENGW 1111	4	Elective	4				

MATH 1231	4	Elective	4		
Elective	4				
	17		16	0	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
ECON 2315	4	Co-op	0	Co-op	0
					ECON undergraduate elective
					4
ECON 3520	4				Elective
Elective	4				4
Elective	4				
EESH 2000	1				
	17		0	0	8
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
ECON 2316	4	Co-op	0	Co-op	0
					ECON undergraduate elective
					4
ENGW 3308	4				Elective
ECON undergraduate elective	4				4
Elective	4				
	16		0	0	8
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
ECON 3560	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	Summer 1	Hours
ECON 5105	4	ECON 4692	4	Vacation	0
					Vacation
					0
ECON 5110	4	ECON 5120	4		
Elective	4	ECON 5140	4		
Elective	4	Elective	4		
	16		16	0	0
Year 6					
Fall	Hours	Spring	Hours		
ECON graduate elective	4	ECON graduate elective	4		
ECON graduate elective	4	ECON graduate elective	4		
	8		8		

Total Hours: 146

Economics, Minor

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

Calculus 1

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):

ECON 1115	Principles of Macroeconomics	4
ECON 1116	Principles of Microeconomics	4
ECON 2315	Macroeconomic Theory	4
or ECON 2316	Microeconomic Theory	

Elective Courses

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 3915	Intermediate Selected Topics in Macroeconomics	
ECON 3916	Intermediate Selected Topics in Microeconomics	
Advanced		
ECON 3520	History of Economic Thought	
ECON 3560	Applied Econometrics	
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>)

Elizabeth Maddock Dillon, PhD

Professor and Chair

405 Lake Hall

617.373.4540

617.373.2509 (fax)

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/csssh/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 several 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. 28).”

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; 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. 30).” For template program requirements, visit the myNEU web portal (<http://www.myneu.neu.edu>), click on the “Self-Service” tab, then on “My Degree Audit.”

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. 630)
- English and Communication Studies (p. 636)
- English and Cultural Anthropology (p. 638)
- English and Graphic and Information Design (p. 640)
- Linguistics and English (p. 642)
- Media and Screen Studies and English (p. 645)

Bachelor of Science (BS)

- Biology and English (p. 647)
- Computer Science and English (p. 633)

Dual Degree

- English, BA/MA (p. 649)

Minor

- English (p. 652)
- Rhetoric (p. 652)
- Writing (p. 652)

English, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

English Major Requirements

Foundation Courses

ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	

Literary Periods

<i>Early Literatures</i>		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	

ENGL 2200	The Bible
ENGL 2210	Medieval British Literature
ENGL 2215	Shakespeare's Comedies
ENGL 2216	Shakespeare's Tragedies
ENGL 2230	Sixteenth-Century British Literature
ENGL 3151	Topics in Early Literatures Abroad
ENGL 3607	Chaucer
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
<i>Seventeenth to Eighteenth Centuries</i>	
Complete one of the following: 4	
ENGL 2240	Seventeenth-Century British Literature
ENGL 2250	Eighteenth-Century British Literature
ENGL 2295	Revolution and Revolt in Early American Literature
ENGL 2296	Early African-American Literature
ENGL 3618	Milton
ENGL 4020	Topics in 17th- and 18th-Century Literatures
<i>Nineteenth Century</i>	
Complete one of the following: 4	
ENGL 2260	Romantic Poetry
ENGL 2270	Victorian Literature
ENGL 2280	Nineteenth-Century British Fiction
ENGL 2330	The American Renaissance
ENGL 2340	American Realism
ENGL 3619	Emerson and Thoreau
ENGL 3720	Nineteenth-Century Major Figure
ENGL 4040	Topics in 19th-Century Literatures
<i>Twentieth to Twenty-First Centuries</i>	
Complete one of the following:	
ENGL 2290	Twentieth-Century British Literature
ENGL 2291	Major Twentieth-Century British Novelists
ENGL 2355	Modern American Literature
ENGL 2410	Contemporary American Literature
ENGL 2360	Modern African-American Literature
ENGL 2440	The Modern Bestseller
ENGL 2600	Irish Literary Culture Abroad
ENGL 2610	Contemporary Israeli Literature and Art Abroad
or JWSS 2610	Contemporary Israeli Literature and Art Abroad
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure
ENGL 4060	Topics in 20th- and 21st-Century Literatures

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 1501	British Literature 1800 to Present
ENGL 1502	American Literature to 1865
ENGL 1503	American Literature 1865 to Present
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2620	What Is Nature? (Abroad)
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text Abroad
ENGL 3488	Film and Text
ENGL 3572	Fantasy
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel
ENGL 4070	Topics in Genre
ENGL 4684	Topics in Postcolonial Literature
ENGL 4688	Topics in Comparative Textual Studies
Theories and Methods	
Complete one of the following: 4	
ENGL 1160	Introduction to Rhetoric
ENGL 1410	Introduction to Writing Studies
ENGL 2830	Literary Theory
ENGL 3325	Rhetoric of Law
ENGL 3340	Technologies of Text
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 4100	Topics in Literary Criticism
ENGL 4110	Topics in Rhetoric and Writing Studies
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
ENGW 3313	Advanced Writing in Education

Writing

Complete two of the following:	8
ENGL 2700	Creative Writing
ENGL 2760	Writing in Global Contexts
ENGL 3376	Creative Nonfiction
ENGL 3377	Poetry Workshop
ENGL 3378	Fiction Workshop
ENGL 2710	Style and Editing
ENGL 2740	Writing and Community Engagement
ENGL 2770	Writing to Heal
ENGL 3375	Writing Boston
ENGL 3379	Nonfiction Workshop
ENGL 3380	Topics in Writing
ENGL 3382	Publishing in the 21st Century

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

Diversity

Complete one of the following courses, which can also count toward another requirement in the major:	4
ENGL 2296	Early African-American Literature
ENGL 2360	Modern African-American Literature
ENGL 2760	Writing in Global Contexts
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
ENGL 2450	Postcolonial Literature
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 3663	The African-American Novel
ENGL 4684	Topics in Postcolonial 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:

CINE 2394	Modern Film and Global Culture
CINE 3392	Gender and Film
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, an education practicum, or a Dialogues of Civilization experience. (Other study-abroad programs may not be used.) This course can also count toward another requirement in the major.

Experiential Learning Course Work

ENGL 2740	Writing and Community Engagement	4
ENGL 3340	Technologies of Text	4
ENGL 3381	The Practice and Theory of Teaching Writing	4
ENGL 4400	Opening the Archive	4
ENGL 4410	Research in Rhetoric and Writing	4
ENGL 3375	Writing Boston	4

Experiential Learning for Education Minors

Education minors automatically fulfill the experiential learning requirement for English. See the curriculum guide for education. (p. 42)

Dialogues of Civilization

Complete one Dialogues of Civilization experience. (Other study-abroad programs may not be used.)

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 1111	4	ENGL 1700	4	Vacation	0	Vacation	0
ENGL 1400	4	ENGL 1410 or 1160	4				
Foreign language core course	4	Foreign language core course	4				
Elective	4	Elective	4				
		EESH 2000	1				
		16		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: 125

Computer Science 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1

Computer Science Fundamental Courses		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	4

Computer Science Elective Courses		
IS 2000 or CS 4500	Principles of Information Science Software Development	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

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.

Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1160 or ENGL 1410	Introduction to Rhetoric Introduction to Writing Studies	4

Diversity		
Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2296	Early African-American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 3685 or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	

ENGL 2490	Native American Literature
ENGL 2760	Writing in Global Contexts
ENGL 3663	The African-American Novel
Pre-Nineteenth-Century Literature	
Complete one of the following: 4	
ENGL 1600	Introduction to Shakespeare
ENGL 2200	The Bible
ENGL 2210	Medieval British Literature
ENGL 2215	Shakespeare's Comedies
ENGL 2216	Shakespeare's Tragedies
ENGL 2230	Sixteenth-Century British Literature
ENGL 2240	Seventeenth-Century British Literature
ENGL 2250	Eighteenth-Century British Literature
ENGL 2295	Revolution and Revolt in Early American Literature
ENGL 2296	Early African-American Literature
ENGL 3151	Topics in Early Literatures Abroad
ENGL 3607	Chaucer
ENGL 3618	Milton
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 4020	Topics in 17th- and 18th-Century Literatures
Nineteenth-Century to Twenty-First-Century Literature	
Complete one of the following: 4	
ENGL 2260	Romantic Poetry
ENGL 2270	Victorian Literature
ENGL 2280	Nineteenth-Century British Fiction
ENGL 2330	The American Renaissance
ENGL 2340	American Realism
ENGL 3619	Emerson and Thoreau
ENGL 3720	Nineteenth-Century Major Figure
ENGL 4040	Topics in 19th-Century Literatures
ENGL 2290	Twentieth-Century British Literature
ENGL 2291	Major Twentieth-Century British Novelists
ENGL 2355	Modern American Literature
ENGL 2360	Modern African-American Literature
ENGL 2410	Contemporary American Literature
ENGL 2440	The Modern Bestseller
ENGL 2600	Irish Literary Culture Abroad
ENGL 2610	Contemporary Israeli Literature and Art Abroad
or JWSS 2610	Contemporary Israeli Literature and Art Abroad
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure
ENGL 4060	Topics in 20th- and 21st-Century Literatures

Theories and Methods

Complete one of the following: (exclude ENGL 3340) 4	
ENGL 1160	Introduction to Rhetoric
ENGL 1410	Introduction to Writing Studies
ENGL 2830	Literary Theory
ENGL 3325	Rhetoric of Law
ENGL 3340	Technologies of Text
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 4400	Opening the Archive
ENGL 4110	Topics in Rhetoric and Writing Studies
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 1501	British Literature 1800 to Present
ENGL 1502	American Literature to 1865
ENGL 1503	American Literature 1865 to Present
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2620	What Is Nature? (Abroad)
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text Abroad
ENGL 3488	Film and Text
ENGL 3572	Fantasy
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel

Writing

Complete one of the following: 4	
ENGL 2700	Creative Writing
ENGL 2770	Writing to Heal
ENGL 3376	Creative Nonfiction

ENGL 3377	Poetry Workshop
ENGL 3378	Fiction Workshop
ENGL 2710	Style and Editing
ENGL 2740	Writing and Community Engagement
ENGL 2760	Writing in Global Contexts
ENGL 3375	Writing Boston
ENGL 3379	Nonfiction Workshop
ENGL 3380	Topics in Writing
ENGL 3382	Publishing in the 21st Century

English Electives

Complete additional ENGL electives to reach total of 10 ENGL courses. 4

LING 1150	Introduction to Language and Linguistics (May substitute for one ENGL course in this elective requirement.)
-----------	-------------------------------------------------------------------------------------------------------------

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

Integrative Course Requirement

Code	Title	Hours
ENGL 3340	Technologies of Text	4

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses.

CCIS Computing and Social Issues

Code	Title	Hours
Complete one of the following: 4		
SOCL 4528	Computers and Society	
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The Twenty-First-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

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 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

133 total semester hours required

Note: CCIS intentionally makes the total credits required one less than the sum of the credits to allow for a one credit waiver if needed.

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 1800 and CS 1801	4	CS 2510 and CS 2511	5	CS 3500	4	Vacation	0
CS 2500 and CS 2501	5	CS 2800 and CS 2801	5	Elective	4		
CS 1200	1	ENGL 1160 or 1410	4				
ENGW 1111	4	English Literary Period 1	4				
ENGL 1400	4						
		18	18	8	0		
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 3200	4	Strand Elective 1	4	ENGW 3302, 3309, 3310, or 3315	4	Co-op	4
CS 4800	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	4
		English Category or Elective	4	Elective	4		

	English Category or Elective	4		
	Computing and Social Issues	4		
	THTR 1170	1		
		0	17	8
Year 4				0
Fall	Hours Spring	Hours Summer 1	Hours	
Co-op	CS 4500 (or English Category or Elective)	4 Elective (if needed)	4	
	ENGL 4710 or 4720	4 Elective (if needed)	4	
	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 1800 and CS 1801	4 CS 2510 and CS 2511	5 Vacation	Vacation	
CS 2500 and CS 2501	5 CS 2800 and CS 2801	5		
CS 1200	1 ENGL 1160 or 1410	4		
ENGW 1111	4 English Literary Period 1	4		
ENGL 1400	4			
	18	18	0	0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 CS 3200	4 Vacation	Co-op	
CS 4800	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		
	Elective	4		
	Elective	4		
	0	16		

Total Hours: 134

English and Communication 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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.

Foundational Courses

ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	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 2296	Early African-American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	

Pre-Nineteenth-Century Literature

Complete one of the following: 4

ENGL 1600	Introduction to Shakespeare	
ENGL 2200	The Bible	
ENGL 2210	Medieval British Literature	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	
ENGL 2230	Sixteenth-Century British Literature	
ENGL 2240	Seventeenth-Century British Literature	
ENGL 2250	Eighteenth-Century British Literature	
ENGL 2295	Revolution and Revolt in Early American Literature	
ENGL 2296	Early African-American Literature	
ENGL 3151	Topics in Early Literatures Abroad	
ENGL 3607	Chaucer	
ENGL 3618	Milton	
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 4020	Topics in 17th- and 18th-Century Literatures	

Nineteenth-Century Literature

Complete one of the following: 4

ENGL 2260	Romantic Poetry	
ENGL 2270	Victorian Literature	
ENGL 2280	Nineteenth-Century British Fiction	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	Nineteenth-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	

Twentieth- and Twenty-First-Century Literature

Complete one of the following: 4

ENGL 2290	Twentieth-Century British Literature	
-----------	--------------------------------------	--

ENGL 2291	Major Twentieth-Century British Novelists	
ENGL 2355	Modern American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture Abroad	
ENGL 2610	Contemporary Israeli Literature and Art Abroad	
or JWSS 2610	Contemporary Israeli Literature and Art Abroad	
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure	
ENGL 4060	Topics in 20th- and 21st-Century Literatures	

Theories and Methods

Complete one of the following: 4

ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2830	Literary Theory	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 4400	Opening the Archive	
ENGL 4110	Topics in Rhetoric and Writing Studies	
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 1501	British Literature 1800 to Present	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.	

ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2620	What Is Nature? (Abroad)
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text Abroad
ENGL 3488	Film and Text
ENGL 3572	Fantasy
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel

Writing

Complete one of the following: 4

ENGL 2700	Creative Writing
ENGL 2770	Writing to Heal
ENGL 3376	Creative Nonfiction
ENGL 3377	Poetry Workshop
ENGL 3378	Fiction Workshop
ENGL 2710	Style and Editing
ENGL 2740	Writing and Community Engagement
ENGL 2760	Writing in Global Contexts
ENGL 3375	Writing Boston
ENGL 3379	Nonfiction Workshop
ENGL 3380	Topics in Writing
ENGL 3382	Publishing in the 21st Century

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

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 1310	Classical Foundations of Communication
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 3201	Health Communication
COMM 3230	Interpersonal Communication
COMM 3304	Communication and Inclusion
COMM 3320	Political Communication
COMM 3331	Argumentation and Debate
COMM 3414	Great Speakers and Speeches 2, 1930–Present
COMM 3415	Communication Criticism
COMM 3500	Environmental Issues, Communication, and the Media
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 4131	Sex and Interpersonal Communication
COMM 4533	Consultation Skills
COMM 4534	Organizational Communication Training and Development
COMM 4535	Nonverbal Social Interaction
COMM 4602	Contemporary Rhetorical Theory
COMM 4605	Youth and Communication Technology
COMM 4631	Crisis Communication and Image Management
COMM 4901	Seminar in Communications
COMM 4918	Special Topics in Communication Studies

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**Program Requirements**

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

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 ENGL 3000–ENGL 4999.

Foundational Courses

ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	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 2296	Early African-American Literature	
ENGL 2360	Modern African-American Literature	
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	

Pre-Nineteenth-Century Literature

Complete one of the following: 4

ENGL 1600	Introduction to Shakespeare	
ENGL 2200	The Bible	
ENGL 2210	Medieval British Literature	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	
ENGL 2230	Sixteenth-Century British Literature	
ENGL 2240	Seventeenth-Century British Literature	
ENGL 2250	Eighteenth-Century British Literature	
ENGL 2295	Revolution and Revolt in Early American Literature	
ENGL 2296	Early African-American Literature	
ENGL 3151	Topics in Early Literatures Abroad	
ENGL 3607	Chaucer	
ENGL 3618	Milton	

ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
----------------	---------------------------------------------------------------------------------------	--

ENGL 4020	Topics in 17th- and 18th-Century Literatures	
-----------	----------------------------------------------	--

Nineteenth-Century Literature

Complete one of the following: 4

ENGL 2260	Romantic Poetry	
ENGL 2270	Victorian Literature	
ENGL 2280	Nineteenth-Century British Fiction	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	Nineteenth-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	

Twentieth- and Twenty-First-Century Literature

Complete one of the following: 4

ENGL 2290	Twentieth-Century British Literature	
ENGL 2291	Major Twentieth-Century British Novelists	
ENGL 2355	Modern American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture Abroad	
ENGL/JWSS 2610	Contemporary Israeli Literature and Art Abroad	
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure	
ENGL 4060	Topics in 20th- and 21st-Century Literatures	

Theories and Methods

Complete one of the following: 4

ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2830	Literary Theory	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 4100	Topics in Literary Criticism	
ENGL 4110	Topics in Rhetoric and Writing Studies	
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 1501	British Literature 1800 to Present	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text Abroad	
ENGL 3488	Film and Text	
ENGL 3572	Fantasy	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	

Writing

Complete one of the following: 4

ENGL 2700	Creative Writing	
ENGL 2710	Style and Editing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 2770	Writing to Heal	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 3375	Writing Boston	
ENGL 3379	Nonfiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

Cultural Anthropology Requirements

Note: A 2.000 GPA is required in all cultural anthropology courses.

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	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 4684	Topics in Postcolonial Literature	

Cultural Anthropology Integrative Courses

Complete one of the following: 4

ANTH 2300	Reading Culture through Ethnography	
ANTH 3421	Foundations of Anthropological Theory	

English and Cultural Anthropology Combined-Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

English and Graphic and Information 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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.		
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	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 2296	Early African-American Literature	
ENGL 2360	Modern African-American Literature	
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 2200	The Bible	
ENGL 2210	Medieval British Literature	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	
ENGL 2230	Sixteenth-Century British Literature	
ENGL 2240	Seventeenth-Century British Literature	
ENGL 2250	Eighteenth-Century British Literature	
ENGL 2295	Revolution and Revolt in Early American Literature	
ENGL 2296	Early African-American Literature	
ENGL 3151	Topics in Early Literatures Abroad	
ENGL 3607	Chaucer	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	

ENGL 2270	Victorian Literature	
ENGL 2280	Nineteenth-Century British Fiction	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	Nineteenth-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
Twentieth- and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2290	Twentieth-Century British Literature	
ENGL 2291	Major Twentieth-Century British Novelists	
ENGL 2355	Modern American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture Abroad	
ENGL/JWSS 2610	Contemporary Israeli Literature and Art Abroad	
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure	
ENGL 4060	Topics in 20th- and 21st-Century Literatures	
Theories and Methods		
Complete one of the following:		4
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2830	Literary Theory	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 4400	Opening the Archive	
ENGL 4110	Topics in Rhetoric and Writing Studies	
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 1501	British Literature 1800 to Present	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2620	What Is Nature? (Abroad)
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text Abroad
ENGL 3488	Film and Text
ENGL 3572	Fantasy
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel

Writing

Complete one of the following: 4

ENGL 2700	Creative Writing
ENGL 3376	Creative Nonfiction
ENGL 3377	Poetry Workshop
ENGL 3378	Fiction Workshop
ENGL 2710	Style and Editing
ENGL 2740	Writing and Community Engagement
ENGL 2760	Writing in Global Contexts
ENGL 2770	Writing to Heal
ENGL 3375	Writing Boston
ENGL 3379	Nonfiction Workshop
ENGL 3380	Topics in Writing
ENGL 3382	Publishing in the 21st Century

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

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 and ARTF 1123	2D Fundamentals: Surface and Drawing and 2D Tools	5
ARTF 2220 and ARTF 2221	4D Fundamentals: Sequence and Drawing and 4D Tools	5
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 and ARTG 2251	Typography 1 and Type Tools	5

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: 4-5

ARTD 2360 and ARTD 2361	Photo Basics and Photo Tools
ARTD 2370 and ARTD 2371	Animation Basics and Animation Tools
ARTD 2380 and ARTD 2381	Video Basics and Video Tools
ARTG 2260	Programming Basics
ARTF 1120	Observational Drawing
ARTF 1121	Conceptual Drawing
ARTF 1124 and ARTF 1125	3D Fundamentals: Structure and Drawing and 3D Tools
ARTF 2223 and ARTF 2224	5D Fundamentals: Experience and Drawing and 5D Tools
ARTG 2400 and ARTG 2401	Interaction Design 1: Responsive and Interaction Design Tools
ARTG 3351	Time-Based Design
ARTG 3352	Interaction Design Basics
ARTG 3450	Graphic Design 2
ARTG 3460	Identity and Brand Design
ARTG 3461	Service Design
ARTG 3700	Interaction Design 2: Mobile
ARTG 4551	Design Degree Project 2
ARTG 4552	Information Design 2
ARTG 4553	Environmental Design
ARTG 4554	Typography 3

Integrative Requirement

Code	Title	Hours
Integrative English Course		
ENGL 3340	Technologies of Text	4

Program Requirement

128 total semester hours required

Linguistics and English, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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	Phonetics and Phonology	4
LING 3450	Syntax	4
Linguistics Electives		
Complete three of the following:		12
DEAF 2700	ASL Linguistics	
LING 3402	African-American English	
LING 3424	Morphology	
LING 3428	African Languages	
LING 3430	Applied Linguistics	
LING 3432	Romance Linguistics	
LING 3434	Bilingualism	
LING 3436	Structure of Spanish	
LING 3438	Structure of French	
or LANG 3438	Structure of French	
LING 3442	Sociolinguistics	
LING 3444	Linguistics in Education	
LING 3448	Issues in Linguistics	
LING 3452	Semantics	
LING 3456	Language and Gender	
LING 3458	Topics in Linguistics	
LING 3460	Historical Linguistics	
LING 4654	Seminar in Linguistics	
PHIL 1215	Symbolic Logic	
PHIL 4540	Philosophy of Language	
PSYC 3464	Psychology of Language	
PSYC 3466	Cognition	
PSYC 4520	Language and the Brain	
PSYC 4522	Psychology of Reading	
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
Literature Backgrounds		
ENGL 1700	Global Literature to 1500	4

Literature Survey Courses

Complete three of the following:		12
AFAM 3664	Black Poetry and the Spoken Word	
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 1501	British Literature 1800 to Present	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text Abroad	
ENGL 3488	Film and Text	
ENGL 3572	Fantasy	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 4684	Topics in Postcolonial Literature	
ENGL 4688	Topics in Comparative Textual Studies	

Shakespeare Course

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	

Literature before 1800

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 2200	The Bible	
ENGL 2210	Medieval British Literature	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	
ENGL 2230	Sixteenth-Century British Literature	
ENGL 2240	Seventeenth-Century British Literature	
ENGL 2250	Eighteenth-Century British Literature	
ENGL 2295	Revolution and Revolt in Early American Literature	
ENGL 2296	Early African-American Literature	
ENGL 3607	Chaucer	
ENGL 3618	Milton	

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 4020	Topics in 17th- and 18th-Century Literatures

Literature after 1800

Complete one of the following: 4

CINE 2394	Modern Film and Global Culture
ENGL 2260	Romantic Poetry
ENGL 2270	Victorian Literature
ENGL 2280	Nineteenth-Century British Fiction
ENGL 2330	The American Renaissance
ENGL 2340	American Realism
ENGL/JWSS 2610	Contemporary Israeli Literature and Art Abroad
ENGL 3619	Emerson and Thoreau
ENGL 3720	Nineteenth-Century Major Figure
ENGL 4040	Topics in 19th-Century Literatures
ENGL 2290	Twentieth-Century British Literature
ENGL 2291	Major Twentieth-Century British Novelists
ENGL 2355	Modern American Literature
ENGL 2360	Modern African-American Literature
ENGL 2410	Contemporary American Literature
ENGL 2440	The Modern Bestseller
ENGL 2600	Irish Literary Culture Abroad
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure
ENGL 4060	Topics in 20th- and 21st-Century Literatures

Linguistics/English Combined-Major Requirements

Code	Title	Hours
Experiential Learning		
Complete one of the following options, or complete a study abroad:		4-8
<i>Junior/Senior Honors Project</i>		
LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	
<i>Directed Study</i>		
LING 4996	Experiential Education Directed Study	
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 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
LING 1150	4	Foreign language core course	4	Vacation	4	Vacation	0
Elective	4	LING 2350	4				
ENGW 1111	4	Literary survey - CINE/ENGL combined	4				
MATH 1215	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	4	Co-op	0
LING 3454	4	LING 3450	4				
ENGL 1700	4	Shakespeare elective	4				
Elective	4	LING undergraduate elective	4				
		EESC 2000	1				
	16		17			0	0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Literary survey - CINE/ENGL combined	4	Elective	4	Co-op	0
		LING 3422	4	Elective	4		
		ENGW 3315	4				
		Literature before 1800	4				
		Elective	4				
	0		16			8	0

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	Literary survey - CINE/ENGL combined	4	Elective	4	Co-op	0
		Literature after 1800	4	Elective	4		
		Elective	4				
		LING undergraduate elective	4				
		LING 3412	4				
	0		16			8	0

Year 5

Fall	Hours	Spring	Hours
Co-op	0	Linguistics elective	4
		LING 4654	4
		Foreign language core course	4
		LING 4996	4
	0		16

Total Hours: 129

Media and Screen Studies and English, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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		
Complete one of the following:		4
CINE 2350	History of Film	
MSCR 3423	Twentieth-Century Media	
MSCR 4208	TV History	
Advanced Theory		
MSCR 4623	Theories of Media and Culture	4
Media and Screen Electives		
Complete three of the following:		12
CINE 2350	History of Film	
CINE 2394	Modern Film and Global Culture	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3900	Film and Psychoanalysis	

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 2500	Digital Media Research
MSCR 2895	Film Analysis
MSCR 3210	Special Topics in Media and Screen Studies
MSCR 3300	Media Activism
MSCR 3402	Television and Society
MSCR 3422	Media Audiences
MSCR 3423	Twentieth-Century Media
MSCR 3426	Popular Music as Media Form
MSCR 3428	Television Studies
MSCR 3435	Media Industries
MSCR 3437	Media and Identity
MSCR 3438	Celebrity Culture
MSCR 3500	Documentary Storytelling
ARTD 3480	Video: Sound and Image
ARTD 3485	Video Art
ARTH 2212	Survey of the Still and Moving Image

Advanced Media and Screen Electives

Complete two of the following:		8
CINE 3500	Film Theory	
CINE 4500	Modernism/Modernity and Film	
CINE 4550	Cinema Studies Seminar	
CINE 4560	Directing the Short Fiction Film	
MSCR 4206	Age, Media, and Representation	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4610	The Networked Self	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4685	Interactive Documentary	
MSCR 4970	Junior/Senior Honors Project 1	
MSCR 4971	Junior/Senior Honors Project 2	
MSCR 4991	Research	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	
MSCR 4996	Experiential Education Directed Study	
MSCR 4685	Interactive Documentary	
ARTD 4582		
ARTD 4682	Video in Context: Video and Social Change	

English Requirements for Combined Majors

Code	Title	Hours
English Course-Level Requirement		
In addition to the capstone, two of the courses chosen from the lists below must be numbered in the range ENGL 3000–ENGL 4999.		
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	4

ENGL 1160 or ENGL 1410	Introduction to Rhetoric Introduction to Writing Studies	4
---------------------------	-------------------------------------------------------------	---

Diversity

This course may also be used to fulfill an additional English requirement below.

Complete one of the following: 4

ENGL 2296	Early African-American Literature
ENGL 2360	Modern African-American Literature
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
ENGL 2450	Postcolonial Literature
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 2760	Writing in Global Contexts
ENGL 3663	The African-American Novel

Pre-Nineteenth-Century Literature

Complete one of the following: 4

ENGL 1600	Introduction to Shakespeare
ENGL 2200	The Bible
ENGL 2210	Medieval British Literature
ENGL 2215	Shakespeare's Comedies
ENGL 2216	Shakespeare's Tragedies
ENGL 2230	Sixteenth-Century British Literature
ENGL 2240	Seventeenth-Century British Literature
ENGL 2250	Eighteenth-Century British Literature
ENGL 2295	Revolution and Revolt in Early American Literature
ENGL 2296	Early African-American Literature
ENGL 3151	Topics in Early Literatures Abroad
ENGL 3607	Chaucer
ENGL 3618	Milton
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
ENGL 4020	Topics in 17th- and 18th-Century Literatures

Nineteenth-Century Literature

Complete one of the following: 4

ENGL 2260	Romantic Poetry
ENGL 2270	Victorian Literature
ENGL 2280	Nineteenth-Century British Fiction
ENGL 2330	The American Renaissance
ENGL 2340	American Realism
ENGL 3619	Emerson and Thoreau
ENGL 3720	Nineteenth-Century Major Figure
ENGL 4040	Topics in 19th-Century Literatures

Literature of the Twentieth and Twenty-First Centuries

Complete one of the following: 4

ENGL 2290	Twentieth-Century British Literature
ENGL 2291	Major Twentieth-Century British Novelists
ENGL 2355	Modern American Literature
ENGL 2360	Modern African-American Literature

ENGL 2410	Contemporary American Literature
ENGL 2440	The Modern Bestseller
ENGL 2600	Irish Literary Culture Abroad
ENGL/JWSS 2610	Contemporary Israeli Literature and Art Abroad
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure
ENGL 4060	Topics in 20th- and 21st-Century Literatures

Theories and Methods

Complete one of the following: 4

ENGL 1160	Introduction to Rhetoric
ENGL 1410	Introduction to Writing Studies
ENGL 2830	Literary Theory
ENGL 3325	Rhetoric of Law
ENGL 3340	Technologies of Text
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 4100	Topics in Literary Criticism
ENGL 4110	Topics in Rhetoric and Writing Studies
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 Course

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 1501	British Literature 1800 to Present
ENGL 1502	American Literature to 1865
ENGL 1503	American Literature 1865 to Present
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction

ENGL 2620	What Is Nature? (Abroad)
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text Abroad
ENGL 3488	Film and Text
ENGL 3572	Fantasy
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel
ENGL 4070	Topics in Genre
ENGL 4684	Topics in Postcolonial Literature
ENGL 4688	Topics in Comparative Textual Studies

Writing

Complete one of the following: 4

ENGL 2700	Creative Writing
ENGL 2770	Writing to Heal
ENGL 3376	Creative Nonfiction
ENGL 3377	Poetry Workshop
ENGL 3378	Fiction Workshop
ENGL 2710	Style and Editing
ENGL 2740	Writing and Community Engagement
ENGL 2760	Writing in Global Contexts
ENGL 3375	Writing Boston
ENGL 3379	Nonfiction Workshop
ENGL 3380	Topics in Writing
ENGL 3382	Publishing in the 21st Century

Capstone

ENGL 4710 or ENGL 4720	Capstone Seminar Capstone Project	4
---------------------------	--------------------------------------	---

Integrative Requirement

Code	Title	Hours
Integrative Courses		
CINE 3500	Film Theory	4
ENGL 1450 or ENGL 3340	Reading and Writing in the Digital Age Technologies of Text	4

Media and Screen Studies Grade Requirement

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

Biology 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Breadth 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 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

Physics*Physics 1*

Complete one of the following lecture/lab pairs. PHYS 1145/
PHYS 1146 are 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 are 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

Biology Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000 or ENGL 1000	Biology at Northeastern English 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
<i>Inquiries</i>		
BIOL 2299	Inquiries in Biological Sciences	4
<i>Genetics</i>		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
<i>Techniques</i>		
BIOL 2309	Techniques in Biology: An Inquiry- Based Lab	4
<i>Biochemistry</i>		
BIOL 2323 and BIOL 2324	and	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	5
BIOL 2327	Human Parasitology	4
EEMB 2302 and EEMB 2303	Ecology and Lab for EEMB 2302	5
EEMB 2400	Introduction to Evolution	4
EEMB 2616 and EEMB 2617	Invertebrate Zoology and Lab for EEMB 2616	5
EEMB 2618 and EEMB 2619	Vertebrate Zoology and Lab for EEMB 2618	5
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	5

English Requirements

Code	Title	Hours
English Course-Level Requirements		
Two of the courses chosen from the lists below must be numbered 3000–4999.		
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	4
ENGL 1160 or ENGL 1410	Introduction to Rhetoric Introduction to Writing Studies	4
Diversity		
This course may also be used to fulfill an additional English requirement below.		
Complete one of the following:		4
ENGL 2296	Early African-American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 3685 or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	

ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	
Pre-Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 2200	The Bible	
ENGL 2210	Medieval British Literature	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	
ENGL 2230	Sixteenth-Century British Literature	
ENGL 2240	Seventeenth-Century British Literature	
ENGL 2250	Eighteenth-Century British Literature	
ENGL 2295	Revolution and Revolt in Early American Literature	
ENGL 2296	Early African-American Literature	
ENGL 3151	Topics in Early Literatures Abroad	
ENGL 3607	Chaucer	
ENGL 3618	Milton	
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 4020	Topics in 17th- and 18th-Century Literatures	
Nineteenth-Century Literature		
Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2270	Victorian Literature	
ENGL 2280	Nineteenth-Century British Fiction	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	Nineteenth-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	
Twentieth- and Twenty-First-Century Literature		
Complete one of the following:		4
ENGL 2290	Twentieth-Century British Literature	
ENGL 2291	Major Twentieth-Century British Novelists	
ENGL 2355	Modern American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture Abroad	
ENGL 2610	Contemporary Israeli Literature and Art Abroad	
or JWSS 2610	Contemporary Israeli Literature and Art Abroad	
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure	

ENGL 4060	Topics in 20th- and 21st-Century Literatures	
Theories and Methods		
Complete one of the following:		4
ENGL 1160	Introduction to Rhetoric	
ENGL 1410	Introduction to Writing Studies	
ENGL 2830	Literary Theory	
ENGL 3325	Rhetoric of Law	
ENGL 3340	Technologies of Text	
ENGL 3381	The Practice and Theory of Teaching Writing	
ENGL 4400	Opening the Archive	
ENGL 4100	Topics in Literary Criticism	4
ENGL 4110	Topics in Rhetoric and Writing Studies	
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 1501	British Literature 1800 to Present	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2620	What Is Nature? (Abroad)	
ENGL 3427	The Literature of Science	
ENGL 3487	Film and Text Abroad	
ENGL 3488	Film and Text	
ENGL 3572	Fantasy	
ENGL 3582	Children's Literature	
ENGL 3663	The African-American Novel	
ENGL 4070	Topics in Genre	4
ENGL 4684	Topics in Postcolonial Literature	4

ENGL 4688	Topics in Comparative Textual Studies	4
Writing		
Complete one of the following:		4
ENGL 2700	Creative Writing	
ENGL 2770	Writing to Heal	
ENGL 3376	Creative Nonfiction	
ENGL 3377	Poetry Workshop	
ENGL 3378	Fiction Workshop	
ENGL 2710	Style and Editing	
ENGL 2740	Writing and Community Engagement	
ENGL 2760	Writing in Global Contexts	
ENGL 3375	Writing Boston	
ENGL 3379	Nonfiction Workshop	
ENGL 3380	Topics in Writing	
ENGL 3382	Publishing in the 21st Century	

Integrative Courses

Code	Title	Hours
Integrative English Course		
Complete one of the following:		4
ENGL 2520	Science Fiction	
ENGL 3427	The Literature of Science	
ENGL 3340	Technologies of Text	
Integrative General Biological Sciences Course		
Complete one of the following:		4
PSYC 3464	Psychology of Language	
PSYC 4520	Language and the Brain	
PSYC 4522	Psychology of Reading	
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, BA/MA

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

English Major Requirements

Foundation Courses

ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	4
ENGL 1160	Introduction to Rhetoric	4
or ENGL 1410	Introduction to Writing Studies	

Literary Periods

Early Literatures

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 2200	The Bible	
ENGL 2210	Medieval British Literature	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	
ENGL 2230	Sixteenth-Century British Literature	
ENGL 3151	Topics in Early Literatures Abroad	
ENGL 3607	Chaucer	
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	

Seventeenth to Eighteenth Centuries

Complete one of the following:		4
ENGL 2240	Seventeenth-Century British Literature	
ENGL 2250	Eighteenth-Century British Literature	
ENGL 2295	Revolution and Revolt in Early American Literature	
ENGL 2296	Early African-American Literature	
ENGL 3618	Milton	
ENGL 4000	Topics in Early Literatures	
ENGL 4010	Topics in Shakespeare	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	

Nineteenth Century

Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2270	Victorian Literature	
ENGL 2280	Nineteenth-Century British Fiction	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	Nineteenth-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	

Twentieth to Twenty-First Centuries

Complete one of the following:		
ENGL 2290	Twentieth-Century British Literature	
ENGL 2291	Major Twentieth-Century British Novelists	
ENGL 2355	Modern American Literature	
ENGL 2410	Contemporary American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture Abroad	
ENGL 2610	Contemporary Israeli Literature and Art Abroad	
or JWSS 2610	Contemporary Israeli Literature and Art Abroad	
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure	
ENGL 4060	Topics in 20th- and 21st-Century Literatures	
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 1501	British Literature 1800 to Present	
ENGL 1502	American Literature to 1865	
ENGL 1503	American Literature 1865 to Present	
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2510	Horror Fiction	
ENGL 2520	Science Fiction	
ENGL 2620	What Is Nature? (Abroad)	

ENGL 3427	The Literature of Science
ENGL 3487	Film and Text Abroad
ENGL 3488	Film and Text
ENGL 3572	Fantasy
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel
ENGL 4684	Topics in Postcolonial Literature
ENGL 4070	Topics in Genre

Theories and Methods

Complete one of the following: 4

ENGL 1160	Introduction to Rhetoric
ENGL 1410	Introduction to Writing Studies
ENGL 2830	Literary Theory
ENGL 3325	Rhetoric of Law
ENGL 3340	Technologies of Text
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 4110	Topics in Rhetoric and Writing Studies
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
ENGW 3313	Advanced Writing in Education

Writing

Complete two of the following: 8

ENGL 2700	Creative Writing
ENGL 2760	Writing in Global Contexts
ENGL 2770	Writing to Heal
ENGL 3376	Creative Nonfiction
ENGL 3377	Poetry Workshop
ENGL 3378	Fiction Workshop
ENGL 2710	Style and Editing
ENGL 2740	Writing and Community Engagement
ENGL 3375	Writing Boston
ENGL 3379	Nonfiction Workshop
ENGL 3380	Topics in Writing
ENGL 3382	Publishing in the 21st Century

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

Diversity

Complete one of the following courses, which can also count toward another requirement in the major: 4

ENGL 2296	Early African-American Literature
-----------	-----------------------------------

ENGL 2360	Modern African-American Literature
ENGL 2760	Writing in Global Contexts
ENGL 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
ENGL 2450	Postcolonial Literature
ENGL 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 3663	The African-American Novel

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

CINE 2394	Modern Film and Global Culture
CINE 3392	Gender and Film
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, an education practicum, or a Dialogues of Civilization experience. (Other study-abroad programs may not be used.) This course can also count toward another requirement in the major.

Experiential Learning Course Work

ENGL 2740	Writing and Community Engagement	4
ENGL 3340	Technologies of Text	4
ENGL 3381	The Practice and Theory of Teaching Writing	4
ENGL 4400	Opening the Archive	4
ENGL 4410	Research in Rhetoric and Writing	4
ENGL 3375	Writing Boston	4

Experiential Learning for Education Minors

Education minors automatically fulfill the experiential learning requirement for English. See the curriculum guide for education. (p. 42)

Dialogues of Civilization

Complete one Dialogues of Civilization experience. (Other study-abroad programs may not be used.)

English Major Credit Requirement

Complete 56 semester hours in the major.

Graduate Courses taken as an Undergraduate Student

Complete four graduate courses in the following range: 12

ENGL 5000 to ENGL 7999

Program Requirement

128 total semester hours required

Minimum 3.000 GPA is required in all graduate courses

English, Minor

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

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. At least two courses must be taken at Northeastern.

Introductory Course

Complete one course in the range ENGL 1001 to ENGL 1999.

English Electives

Complete three English courses, two of which must be in the range ENGL 2000 to ENGL 4999.

GPA Requirement

2.000 GPA required in the minor

Rhetoric, Minor

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

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

ENGL 1160	Introduction to Rhetoric	4
or COMM 1210	Persuasion and Rhetoric	

Electives

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 1414	Great Speakers and Speeches 1, 1630–1930	
COMM 3331	Argumentation and Debate	
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

Writing, Minor

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

Theories and Methods

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 4110	Topics in Rhetoric and Writing Studies
ENGL 4410	Research in Rhetoric and Writing

Writing Courses

Complete three of the following: 12

ENGL 1160	Introduction to Rhetoric
ENGL 1410	Introduction to Writing Studies
ENGL 2770	Writing to Heal
ENGL 3325	Rhetoric of Law
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 4110	Topics in Rhetoric and Writing Studies
ENGL 4410	Research in Rhetoric and Writing
ENGL 2700	Creative Writing
ENGL 2710	Style and Editing
ENGL 2740	Writing and Community Engagement
ENGL 2760	Writing in Global Contexts
ENGL 3375	Writing Boston
ENGL 3376	Creative Nonfiction
ENGL 3377	Poetry Workshop
ENGL 3378	Fiction Workshop
ENGL 3379	Nonfiction Workshop
ENGL 3380	Topics in Writing
ENGL 3382	Publishing in the 21st Century

GPA Requirement

2.000 GPA required in the minor

HistoryWebsite (<http://www.northeastern.edu/history>)**Heather Streets-Salter, PhD**

Associate Professor and Chair

249 Meserve Hall

617.373.2660

617.373.2661 (fax)

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. 28)."

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. 30)." For template program requirements, visit the myNEU 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 by the end of the sophomore year.

Programs

Bachelor of Arts (BA)

- History (p. 653)
- Environmental Studies and History (p. 656)

Bachelor of Science (BS)

- History (p. 657)
- Computer Science and History (p. 660)

Dual Degrees

- History, BA/MA (p. 664)
- History, BS/MA (p. 666)
- History, BA/JD (p. 668)
- History, BS/JD (p. 668)

Minor

- History (p. 668)

History, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

History Major Requirements

Introductory History

HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Complete two of the following:		8

HIST 1110	Introduction to World History
HIST 1120	Public History, Public Memory
HIST 1130	Introduction to the History of the United States
ASNS 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 1189	Introduction to South Asian History
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**Pre-1800 Course**

This course may count toward the history cluster or history elective.

Complete one of the following: 4

AFRS 2390 or HIST 2390	Africa and the World in Early Times
AFRS 2391	Modern African Civilization
AFRS 2392	African Diaspora
HIST 2222	History of Science and Technology
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 2310	Spread of Buddhism
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 1189	Introduction to South Asian History
HIST 1206	Drug Trade and Drug War: History, Security, Culture
HIST 1212	History of Race
HIST 1213	History of Violence

HIST 1215	Origins of Today: Historical Roots of Contemporary Issues
HIST 1246	World War II in the Pacific
HIST 1252	Japanese Literature and Culture
HIST 1253	History of Vietnam Wars
HIST 1254	Mao's China and After
HIST 1256	Chinese Civilization in Her Eyes
HIST 1260	Modern Latin America
HIST 1290	Modern Middle East
HIST 1292	Jerusalem: Space and Image
HIST 1500	Modern Chinese History and Culture
HIST 2211	The World Since 1945
HIST 2214	War in the Modern World
HIST 2310	Spread of Buddhism
HIST 2311	Colonialism/Imperialism
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2351	Modern Japan
HIST 2352	Dictators and Democracy in Japan and Korea
HIST 2390	Africa and the World in Early Times
HIST 2391	Modern African Civilization
HIST 2394	Islamic Nationalism
HIST 2397	Modern Africa
HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HIST 4610	Topics in World History
HIST 4620	Topics in Historical Geography
HIST 4650	Topics in Asian History
HIST 4660	Topics in Latin American History
HIST 4690	Topics in African History
HIST 4691	Topics in Middle Eastern History
HIST 4942	East Asian Cultural History Abroad
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad
HIST 4945	North African History Abroad
HIST 4994	Internship in World History

Capstone or Project

Complete one of the following: 4

HIST 4701	Capstone Seminar
HIST 4911	Senior Project 1
HIST 4912	Senior Project 2

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 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			
				0
		17	16	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		
				0
		16	16	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

Upper-division elective	4
History cluster course	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
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			
				0
		17	16	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			
				8
		16	0	0

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			
				8
		16	0	0

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			
				0
		17	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**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements.

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	Environment and Humankind	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	Environmental Philosophy	
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	Environmental History of North America	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	
HIST 1254	Mao's China and After	
HIST 1260	Modern Latin America	

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	
HIST 2222	History of Science and Technology	

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	
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

History, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

History Major Requirements

Introductory History

HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Complete two of the following:		8
HIST 1110	Introduction to World History	
HIST 1120	Public History, Public Memory	
HIST 1130	Introduction to the History of the United States	
ASNS 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 1189	Introduction to South Asian History	
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

Pre-1800 Course

This course may count toward the history cluster or history elective.

Complete one of the following:		4
AFRS 2390 or HIST 2390	Africa and the World in Early Times	
AFRS 2391	Modern African Civilization	
AFRS 2392	African Diaspora	
HIST 2222	History of Science and Technology	
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 2310	Spread of Buddhism
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 1189	Introduction to South Asian History	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 1212	History of Race	
HIST 1213	History of Violence	
HIST 1215	Origins of Today: Historical Roots of Contemporary Issues	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1254	Mao's China and After	
HIST 1256	Chinese Civilization in Her Eyes	
HIST 1260	Modern Latin America	
HIST 1290	Modern Middle East	
HIST 1292	Jerusalem: Space and Image	
HIST 1500	Modern Chinese History and Culture	
HIST 2211	The World Since 1945	
HIST 2214	War in the Modern World	
HIST 2310	Spread of Buddhism	
HIST 2311	Colonialism/Imperialism	
HIST 2312	Global Migration	
HIST 2315	Approaches to World History	
HIST 2351	Modern Japan	
HIST 2352	Dictators and Democracy in Japan and Korea	
HIST 2390	Africa and the World in Early Times	
HIST 2391	Modern African Civilization	
HIST 2394	Islamic Nationalism	
HIST 2397	Modern Africa	
HIST 3412	Global Environmental History	
HIST 3452	Global Chinese Migration	
HIST 4610	Topics in World History	
HIST 4620	Topics in Historical Geography	
HIST 4650	Topics in Asian History	
HIST 4660	Topics in Latin American History	
HIST 4690	Topics in African History	
HIST 4691	Topics in Middle Eastern History	
HIST 4942	East Asian Cultural History Abroad	

HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	
HIST 4945	North African History Abroad	
HIST 4994	Internship in World History	

Research Methods

Complete one of the following: 4

CS 1100	Computer Science and Its Applications	
PHIL 1215	Symbolic Logic	
ECON 2350	Statistics	
ENVR 5260	Geographical Information Systems	
MATH 1180	Statistical Thinking	
MATH 2280	Statistics and Software	
POLS 2400	Quantitative Techniques	
PSYC 2320	Statistics in Psychological Research	
SOCL 2320	Statistical Analysis in Sociology	

Capstone or Project

Requirement for Non-Public History Concentrators

Complete one of the following: 4

HIST 4701	Capstone Seminar	
HIST 4911	Senior Project 1	
HIST 4912	Senior Project 2	

Requirement for Public History Concentrators

Public history concentrators satisfy this requirement within the concentration.

Optional Public History Concentration

Note: Public History, Public Memory (HIST 1120) is a prerequisite for Fieldwork in History 1 (HIST 4903) and Fieldwork in History 2 (HIST 4904).

Public History Courses

HIST 1120	Public History, Public Memory	4
HIST 4903	Fieldwork in History 1	4
HIST 4904	Fieldwork in History 2	4

Graduate Public History Course

Complete one graduate-level course in public history. See history faculty advisor for an approved list. 4

Intermediate/Advanced History Course Requirement

A minimum of three courses from the above requirements must be numbered 2303 or higher. These courses may count toward the history cluster.

History Major Credit Requirement

Complete 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 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 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: 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	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 0	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 0	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	0
HIST 2302	1				
History cluster course	4				
Upper-division or minor elect	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	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	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	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	0
		HIST 4904 4	Minor or free elective 4		

Upper-division elective	4		
Minor or free elective	4		
	0	16	8

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

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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4

CS 4800	Algorithms and Data	4
IS 2000	Principles of Information Science	4
Computer Science Elective Courses		
Complete three upper-division computer science courses from the following ranges:		12
CS 2500 to CS 7999, but not CS 5010		
IS 2000 to IS 7999, but not IS 4900		
DS 2000 to DS 7999, but not DS 4900		
Presentation Requirement		
THTR 1170	The Eloquent Presenter	1

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 1110	Introduction to World History	
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 1189	Introduction to South Asian History	
HIST 1215	Origins of Today: Historical Roots of Contemporary Issues	
HIST 1282	The Holocaust and Comparative Genocide	
HIST 2232	History of Boston	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
Complete one course from the following:		4
AFRS 2390	Africa and the World in Early Times	
or HIST 2390	Africa and the World in Early Times	
AFRS 2391	Modern African Civilization	
or HIST 2391	Modern African Civilization	
AFRS 2392	African Diaspora	
HIST 1252	Japanese Literature and Culture	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 1285	Introduction to Russian Civilization	
HIST 2222	History of Science and Technology	
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	
HIST 4911	Senior Project 1	
HIST 4912	Senior Project 2	
Public history concentrators may also select from the following:		
HIST 4903	Fieldwork in History 1	
HIST 4904	Fieldwork in History 2	

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
or HIST 2241	History of Media in America	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

Research Methods Requirement

Code	Title	Hours
Complete one course from the following:		
ECON 2350	Statistics	4
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	

CCIS Computing and Social Issues

Code	Title	Hours
Complete one course from the following:		
SOCL 4528	Computers and Society	4
SOCL 3485	Environment, Technology, and Society	
SOCL 1280	The Twenty-First-Century Workplace	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	
PHIL 1145	Technology and Human Values	
IA 5240	Cyberlaw: Privacy, Ethics, and Digital Rights	

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

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

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

Note: CCIS intentionally makes the total credits required one less than the sum of the credits to allow for a one credit waiver if needed.

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 1800 and CS 1801	4 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 History Elective or Integrative 1	4		
ENGW 1111	4 Elective	4		
HIST 1200	1			
HIST 1201	4			
				19 17 8 0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 4800	4 CS 2800 and CS 2801	5 Elective	4 Co-op	
HIST 2301	4 CS 1210	1 Elective	4	
HIST 2302	1 CS Elective 1	4		
History Elective or Integrative 2	4 History Elective or Integrative 3	4		
ECON 2350, POLS 2400, PSYC 2320, SOCL 2320, ENVR 3300, or ENVR 5260	4 History Elective or Integrative 4	4		
				17 18 8 0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	CS Elective 2	4 Elective	4 Co-op	
	History Elective or Integrative 5	4 Elective	4	
	History Elective or Integrative 6	4		
	SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4		
	THTR 1170	1		
				0 17 8 0

Year 4			
Fall	Hours Spring	Hours Summer 1	Hours
Co-op	CS Elective 3	4 Elective (if needed)	4
	History Capstone Seminar or Senior Project	4 Elective (if needed)	4
	History Elective or Integrative 7	4	
	Elective	4	
			0 16 8

Total Hours: 136

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 1801	4 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 History Elective or Integrative 1	4		
ENGW 1111	4 Elective	4		
HIST 1200	1			
HIST 1201	4			
				19 17 8 0
Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 4800	4 Co-op	Co-op	Elective	4
CS 1210	1		Elective	4
HIST 2301	4			
HIST 2302	1			
History Elective or Integrative 2	4			

ECON 2350, POLS 2400, PSYC 2320, SOCL 2320, ENVR 3300, or ENVR 5260	4			
	18	0	0	8

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800 and CS 2801	5 Co-op	Co-op	Elective	4
CS Elective 1	4		Elective	4
History Elective or Integrative 3	4			
History Elective or Integrative 4	4			
THTR 1170	1			
	18	0	0	8

Year 4

Fall	Hours Spring	Hours Summer 1	Hours
CS Elective 2	4 CS Elective 3	4 Elective (if needed)	4
History Elective or Integrative 5	4 History Capstone Seminar or Senior Project	4 Elective (if needed)	4
History Elective or Integrative 6	4 History Elective or Integrative 7	4	
SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4 Elective	4	
	16	16	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 1800 and CS 1801	4 CS 2510	4 Vacation	Vacation	
CS 2500 and CS 2501	5 CS 2511	1		
CS 1200	1 IS 2000	4		
ENGW 1111	4 History Elective or Integrative 1	4		
HIST 1200	1 History Elective of Integrative 2	4		
HIST 1201	4			
	19	17	0	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 CS 2800 and CS 2801	5 Vacation	Co-op	
CS 4800	4 CS 1210	1		
HIST 2301	4 CS 3200	4		
HIST 2302	1 History Elective or Integrative 3	4		
ECON 2350, POLS 2400, PSYC 2320, SOCL 2320, ENVR 3300, or ENVR 5260	4 History Elective or Integrative 4	4		
	17	18	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	CS Elective 1	4 Elective	4 Co-op	
	History Elective or Integrative 5	4 Elective	4	
	SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	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	
	History Elective or Integrative 6	4 Elective	4	
	Elective	4		
	Elective	4		
	0	16	8	0

Year 5

Fall	Hours Spring	Hours
Co-op	CS Elective 3	4
	History Capstone Seminar or Senior Project	4
	History Elective or Integrative 7	4
	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
CS 1800 and CS 1801	4 CS 2510 and CS 2511	5 Vacation	Vacation	
CS 2500 and CS 2501	5 IS 2000	4		
CS 1200	1 History Elective or Integrative 1	4		
ENGW 1111	4 History Elective or Integrative 2	4		
HIST 1200	1			
HIST 1201	4			
	19	17	0	0

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 Co-op	Co-op	Vacation	
CS 4800	4			
CS 1210	1			
HIST 2301	4			
HIST 2302	1			
ECON 2350, POLS 2400, PSYC 2320, ENVR 3300, or ENVR 5260	4			
	18	0	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800 and CS 2801	5 Co-op	Co-op	Elective	4
CS 3200	4		Elective	4
History Elective or Integrative 3	4			
History Elective or Integrative 4	4			
THTR 1170	1			
	18	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
History Elective or Integrative 5	4		Elective	4
SOCL 4528, 3485, 1280, ANTH 3418, PHIL 1145, or IA 5240	4			
Elective	4			
	16	0	0	8

Year 5		
Fall	Hours Spring	Hours
CS Elective 2	4 CS Elective 3	4
History Elective or Integrative 6	4 History Capstone Seminar or Senior Project	4
Elective	4 History Elective or Integrative 7	4
Elective	4 Elective	4
	16	16

Total Hours: 136

History, BA/MA

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

History Major Requirements

Introductory History

HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Complete two additional courses from the following:		8
HIST 1110	Introduction to World History	
HIST 1120	Public History, Public Memory	
HIST 1130	Introduction to the History of the United States	
ASNS 1150	East Asian Studies	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 1180	African History	
HIST 1187	Introduction to Latin American History	
HIST 1189	Introduction to South Asian History	
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

Pre-1800 Course

This course may count toward the history cluster or history elective.

Complete one of the following: 4

AFRS 2390 or HIST 2390	Africa and the World in Early Times	
AFRS 2391	Modern African Civilization	
AFRS 2392	African Diaspora	
HIST 2222	History of Science and Technology	
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 2310	Spread of Buddhism	
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 1189	Introduction to South Asian History	
HIST 1206	Drug Trade and Drug War: History, Security, Culture	
HIST 1212	History of Race	
HIST 1213	History of Violence	
HIST 1215	Origins of Today: Historical Roots of Contemporary Issues	
HIST 1246	World War II in the Pacific	
HIST 1252	Japanese Literature and Culture	
HIST 1253	History of Vietnam Wars	
HIST 1254	Mao's China and After	
HIST 1256	Chinese Civilization in Her Eyes	
HIST 1260	Modern Latin America	
HIST 1290	Modern Middle East	
HIST 1292	Jerusalem: Space and Image	
HIST 1500	Modern Chinese History and Culture	
HIST 2211	The World Since 1945	
HIST 2214	War in the Modern World	

HIST 2310	Spread of Buddhism	
HIST 2311	Colonialism/Imperialism	
HIST 2312	Global Migration	
HIST 2315	Approaches to World History	
HIST 2351	Modern Japan	
HIST 2352	Dictators and Democracy in Japan and Korea	
HIST 2390	Africa and the World in Early Times	
HIST 2391	Modern African Civilization	
HIST 2394	Islamic Nationalism	
HIST 2397	Modern Africa	
HIST 3412	Global Environmental History	
HIST 3452	Global Chinese Migration	
HIST 4610	Topics in World History	
HIST 4620	Topics in Historical Geography	
HIST 4650	Topics in Asian History	
HIST 4660	Topics in Latin American History	
HIST 4690	Topics in African History	
HIST 4691	Topics in Middle Eastern History	
HIST 4942	East Asian Cultural History Abroad	
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	
HIST 4945	North African History Abroad	
HIST 4994	Internship in World History	

Capstone or Project

Complete one of the following: 4

HIST 4701	Capstone Seminar	
HIST 4911	Senior Project 1	
HIST 4912	Senior Project 2	

Intermediate/Advanced History Course Requirement

A minimum of three courses from the above requirements must be numbered 2303 or higher. These courses may count toward the history cluster.

Graduate Course Work to Be Taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Required Course

HIST 5101	Theory and Methodology 1	3
-----------	--------------------------	---

Graduate Electives

Complete three graduate electives 12

History Major Undergraduate Credit Requirement

Complete 46 semester hours in the major.

Program Requirements

128 total semester hours required for the bachelor's degree

Minimum 3.000 GPA required in all graduate courses

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 1130	4 Vacation	0 Vacation	0

HIST 1110	4 Math core	4		
Elective	4 Elective	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
Foreign language course	4 Foreign language course	4 Vacation	0 Vacation	0
Elective	4 HIST 2301	4		
HIST 1202 or above	4 HIST 2302	1		
HIST 1202 or above	4 Elective	4		
	Elective	4		
	16	17	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
HIST 1202 or above	4 Upper-division elective	4 Vacation	0 Vacation	0
HIST 1202 or above	4 Elective	4		
Elective	4 Elective	4		
Foreign language course	4 Elective	4		
	16	16	0	0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Elective	4 HIST 5101	3 Vacation	0 Vacation	0
HIST 4701	4 HIST 7235	3		
Elective	4 Elective	4		
Upper-division elective	4 BA course	4		
	16	14	0	0

Year 5

Fall	Hours Spring	Hours
HIST 7205	3 HIST 7304	3
HIST 7305	3 HIST 5295	3
HIST 7228	3 HIST 7206	3
Elective	4 Elective	4
	13	13

Total Hours: 154

History, BS/MA**Program Requirements**

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

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

History Major Requirements**Introductory History**

HIST 1200	Historical Research and Writing	1
HIST 1201	First-Year Seminar	4
Complete two of the following:		8

HIST 1110	Introduction to World History	
HIST 1120	Public History, Public Memory	
HIST 1130	Introduction to the History of the United States	
ASNS 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 1189	Introduction to South Asian History	
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**Pre-1800 Course**

This course may count toward the history cluster or history elective.

Complete one of the following:		4
AFRS 2390 or HIST 2390	Africa and the World in Early Times	
AFRS 2391	Modern African Civilization	
AFRS 2392	African Diaspora	
HIST 2222	History of Science and Technology	
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 2310	Spread of Buddhism
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 1189	Introduction to South Asian History
HIST 1206	Drug Trade and Drug War: History, Security, Culture
HIST 1212	History of Race
HIST 1213	History of Violence
HIST 1215	Origins of Today: Historical Roots of Contemporary Issues
HIST 1246	World War II in the Pacific
HIST 1252	Japanese Literature and Culture
HIST 1253	History of Vietnam Wars
HIST 1254	Mao's China and After
HIST 1256	Chinese Civilization in Her Eyes
HIST 1260	Modern Latin America
HIST 1290	Modern Middle East
HIST 1292	Jerusalem: Space and Image
HIST 1500	Modern Chinese History and Culture
HIST 2211	The World Since 1945
HIST 2214	War in the Modern World
HIST 2310	Spread of Buddhism
HIST 2311	Colonialism/Imperialism
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2351	Modern Japan
HIST 2352	Dictators and Democracy in Japan and Korea
HIST 2390	Africa and the World in Early Times
HIST 2391	Modern African Civilization
HIST 2394	Islamic Nationalism
HIST 2397	Modern Africa
HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HIST 4610	Topics in World History
HIST 4620	Topics in Historical Geography
HIST 4650	Topics in Asian History
HIST 4660	Topics in Latin American History
HIST 4690	Topics in African History
HIST 4691	Topics in Middle Eastern History
HIST 4942	East Asian Cultural History Abroad
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad

HIST 4945	North African History Abroad
HIST 4994	Internship in World History

Research Methods

Complete one of the following: 4

CS 1100	Computer Science and Its Applications
PHIL 1215	Symbolic Logic
ECON 2350	Statistics
ENVR 5260	Geographical Information Systems
MATH 1180	Statistical Thinking
MATH 2280	Statistics and Software
POLS 2400	Quantitative Techniques
PSYC 2320	Statistics in Psychological Research
SOCL 2320	Statistical Analysis in Sociology

Capstone or Project

Requirement for Non-Public History Concentrators

Complete one of the following: 4

HIST 4701	Capstone Seminar
HIST 4911	Senior Project 1
HIST 4912	Senior Project 2

Requirement for Public History Concentrators

Public history concentrators satisfy this requirement within the concentration.

Optional Public History Concentration

Note: Public History, Public Memory (HIST 1120) is a prerequisite for Fieldwork in History 1 (HIST 4903) and Fieldwork in History 2 (HIST 4904).

Public History Courses

HIST 1120	Public History, Public Memory	4
HIST 4903	Fieldwork in History 1	4
HIST 4904	Fieldwork in History 2	4

Graduate Public History Course

Complete one graduate-level course in public history. See history faculty advisor for an approved list. 4

Intermediate/Advanced History Course Requirement

A minimum of three courses from the above requirements must be numbered 2303 or higher. These courses may count toward the history cluster.

Graduate Course Work to Be Taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Required Course

HIST 5101	Theory and Methodology 1	3
-----------	--------------------------	---

Graduate Electives

Complete three graduate electives 12

History Major Credit Requirement

Complete 46 semester hours for the major.

Program Requirements

128 total semester hours required for the bachelor's degree

Minimum 3.000 GPA required in all graduate courses

Plan of Study

Four Years, No Co-op

Year 1				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
ENGW 1111	4 HIST 1130 or 1170	4 Vacation	0 Vacation	0
HIST 1110	4 Math core	4		
Elective	4 Elective	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
HIST 1120	4 HIST 2301	4 Vacation	0 Vacation	0
Research methods course	4 HIST 2302	1		
HIST 1202 or above	4 HIST 1202 or above	4		
Elective	4 Elective	4		
	Elective	4		
	16	17	0	0
Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
HIST 1202 or above	4 SOC minor course	4 SOC minor course	4 Vacation	0
HIST 1202 or above	4 SOC minor course	4		
Public history elective	4 Upper-division elective	4		
SOC minor course	4 HIST 4903	4		
	16	16	4	0
Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
HIST 4904	4 Upper-division elective	4 Vacation	0 Vacation	0
HIST 4701	4 HIST 7210	3		
HIST 5101	3 Elective	4		
SOC minor course	4 HIST 5245	3		
	15	14	0	0
Year 5				
Fall	Hours Spring	Hours		
HIST 5244	3 HIST 5239	3		
HIST 7217	3 HIST 8674	3		
HIST 5240	3 HIST 8410	3		
Graduate seminar	4 HIST undergraduate elective	4		
	13	13		

Total Hours: 157

History, BA/JD

Program Requirements

Students in the 3+3 Program begin their first-year law school courses during their fourth year of study and apply those credits toward both their bachelor's degree and law degree. The program is available only by invitation.

History, BS/JD

Program Requirements

Students in the 3+3 Program begin their first-year law school courses during their fourth year of study and apply those credits toward both their bachelor's degree and law degree. The program is available only by invitation.

History, Minor

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 students with the theoretical and skill-based background necessary for practice and research.

Students take academically rigorous courses relevant to the field while honing their skills through our extensive experiential educational opportunities. Through courses, service-learning, co-op, and internships, students have an opportunity to acquire professional skills related to counseling, nonprofit management, political advocacy, and organizational and community development. Students who major in human services select a specialization in an area that they wish to pursue further.

Alumni have gone on to work as leaders and practitioners in nonprofit, legal services, and government. Many have pursued graduate degrees in a broad range of fields associated with health and human services, including social work, public health, education, and law.

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, have earned at least 64 semester hours, and should have completed the following courses:

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.

Human Services Minor

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.

Programs

Bachelor of Arts (BA)

- Human Services (p. 669)
- Human Services and International Affairs (p. 673)
- Human Services and Sociology (p. 677)
- Human Services and Communication Studies (p. 683)

Bachelor of Science (BS)

- Human Services (p. 678)
- American Sign Language and Human Services (p. 682)
- Human Services and Criminal Justice (p. 684)
- Human Services and Sociology (p. 686)

Dual Degrees

- Human Services, BA/MS (p. 671)
- Human Services, BS/MS (p. 681)

Minor

- Human Services (p. 688)

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Human Services Major Requirements

Human Services Overview

HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	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 4920	International Human Services	
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.

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		
<i>Required</i>		
PSYC 1101	Foundations of Psychology	4
HUSV 3520	Child Intervention and Treatment	4
<i>Elective</i>		
Complete one of the following: 4		
EDUC 1111	Education in the Community	
PSYC 2352	Childhood Mental Illness	
PSYC 3404	Developmental Psychology	
SOCL 1255	Sociology of the Family	
SOCL 1256	Violence in the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 3437	Children and Youth in Contemporary Society	
Specialization in Psychology/Counseling Psychology		
<i>Required</i>		
CAEP 3485	Mental Health and Counseling	4
PSYC 1101	Foundations of Psychology	4
<i>Elective</i>		
Complete one of the following: 4		
CAEP 3480	Counseling Theories and Practice	
CAEP 4502	Health Counseling	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 3540	Services and Treatments for Chemical Dependencies	
PHIL 1165	Moral and Social Problems in Healthcare	
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		
<i>Required</i>		
COMM 4603	Advocacy Workshop	4
POLS 2385	U.S. Health and Welfare Policy	4
<i>Elective</i>		
Complete one of the following: 4		
COMM 1412	Social Movement Communication	
ECON 1240	Economics of Crime	
AFAM 1270	Economic Status of Ethnic Minorities	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 3550	Social Policy, Advocacy, and Activism	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 3307	Public Policy and Administration	
SOCL 1240	Sociology of Prejudice and Violence	
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

AFAM 2367	Race and Social Identity	
AFAM 1270	Economic Status of Ethnic Minorities	
ASNS 2245	The Asian-American Experience	
HUSV 2700	Exploring Adoption: Family, Kinship, and Identity in Contemporary America	
HUSV 2900	Gender Violence: Bystander Education Theory and Practice	
HUSV 3550	Social Policy, Advocacy, and Activism	
PHIL 1110	Introduction to Religion	
PHIL 1285	Jewish Religion and Culture	
POLS 2370	Religion and Politics	
SOCL 1240	Sociology of Prejudice and Violence	
SOCL 1260	Gender in a Changing Society	
SOCL 1287	Sociology of Religion	
WMNS 1101	Sex, Gender, and Popular Culture	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
WMNS 2480	Women and World Politics	

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		
				0
				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	
	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			
				0
				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			
				8
				17
				0
				0

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			
				8
				16
				0
				0

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			
				0
				16
				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, BA/MS

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Human Services Major Requirements

Human Services Overview

HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	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 4920	International Human Services	
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.

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

PSYC 1101	Foundations of Psychology	4
HUSV 3520	Child Intervention and Treatment	4

Elective

Complete one of the following:		4
EDUC 1111	Education in the Community	
PSYC 2352	Childhood Mental Illness	
PSYC 3404	Developmental Psychology	
SOCL 1255	Sociology of the Family	
SOCL 1256	Violence in the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 3437	Children and Youth in Contemporary Society	

Specialization in Psychology/Counseling Psychology

Required

CAEP 3485	Mental Health and Counseling	4
PSYC 1101	Foundations of Psychology	4

Elective

Complete one of the following: 4

CAEP 3480	Counseling Theories and Practice	
CAEP 4502	Health Counseling	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 3540	Services and Treatments for Chemical Dependencies	
PHIL 1165	Moral and Social Problems in Healthcare	
PSYC 3400	Personality	
PSYC 3404	Developmental Psychology	
PSYC 3406	Abnormal Psychology	
NRSRG 1205	Wellness	
SOCL 3441	Sociology of Health and Illness	

Specialization in Social Justice and Social Policy

Required

COMM 4603	Advocacy Workshop	4
POLS 2385	U.S. Health and Welfare Policy	4

Elective

Complete one of the following: 4

COMM 1412	Social Movement Communication	
ECON 1240	Economics of Crime	
AFAM 1270	Economic Status of Ethnic Minorities	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 3550	Social Policy, Advocacy, and Activism	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 3307	Public Policy and Administration	
SOCL 1240	Sociology of Prejudice and Violence	
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

AFAM 2367	Race and Social Identity
AFAM 1270	Economic Status of Ethnic Minorities
ASNS 2245	The Asian-American Experience
HUSV 2700	Exploring Adoption: Family, Kinship, and Identity in Contemporary America
HUSV 2900	Gender Violence: Bystander Education Theory and Practice
HUSV 3550	Social Policy, Advocacy, and Activism
POLS 2370	Religion and Politics
SOCL 1240	Sociology of Prejudice and Violence
SOCL 1260	Gender in a Changing Society
SOCL 1287	Sociology of Religion
WMNS 1101	Sex, Gender, and Popular Culture
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies
WMNS 2480	Women and World Politics

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 Undergraduate Credit Requirement

Complete 58 semester hours in the major.

Graduate Courses taken as an Undergraduate Student

CAEP 6200	Introduction to Counseling: Theory and Process in an Ecological Context	3
CAEP 6235	Vocational, Education, and Career Development	3
CAEP 6262	Evaluation and Outcomes Assessment of Community, School, and Health-Related Programs	3
CAEP 6300	Introduction to College Student Development	3
CAEP 6301	Planning and Administering Student Affairs	3

Program Requirement

128 total semester hours required

Minimum GPA of 3.000 is required in all graduate courses.

Human Services 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Human Services Requirements

Code	Title	Hours
Required Courses		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	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.

International Affairs Requirements

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: ¹		8
INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	

AFAM 2301	Foundations of Black Culture 2
AFAM 2345	The Black Experience in the Caribbean
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
ANTH 3415	Anthropology of Travel and Tourism
COMM 2303	Global and Intercultural Communication
MSCR 2325	Global Media
COMM 5240	Global and Intercultural Media
CLTR 1515	Comparative Analysis of the Lusophone World and Culture
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 1110	Introduction to World History
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
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2317	Comparative Urban Histories
HIST 2398	Radicals, Terrorists, and Insurgents
HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HUSV 4920	International Human Services
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 1127	Introduction to World Music

MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace
PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

International Experiential Learning

Complete at least one “international semester” via study abroad, international internship, international co-op, or two short-term programs.

¹ International Relations (POLS 1160) and International Conflict and Negotiation (INTL 3400) are not permitted to count in the Global Dynamics area for the Human Services and International Affairs, BA as they are required in other areas of the major.

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
AFRS 1128	The African Experience through Music	4

AFRS 2307	Africa Today	4	HIST 1271	Ancient Rome	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4	HIST 2280	Hitler, Germany, and the Holocaust	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4	HIST 2371	Europe 1870–1921	4
AFRS 3460	Contemporary Government and Politics in Africa	4	HIST 2372	Gender and Society in Modern Europe	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4	HIST 2376	The British Empire	4
AFRS 3645	National Model African Union	4	HIST 4946	Independent Field Research Abroad: Central Europe	4
ANTH 4510	Anthropology of Africa	4	POLS 3435	Politics and Governance of Europe and the European Union	4
or INTL 4510	Anthropology of Africa		POLS 4917	Model European Union	4
ENTR 3306	Global Entrepreneurship	4	SOCL 4535	European Union: Social and Political	4
ENTR 3308	Business Economic History of South Africa	4			
HIST 1180	African History	4	Latin America		
HIST 2390	Africa and the World in Early Times	4	AFAM 2301	Foundations of Black Culture 2	4
HIST 2397	Modern Africa	4	AFAM 2345	The Black Experience in the Caribbean	4
MUSC 1128	Music of Africa	4	AFAM 4507	Afro-Cuban Culture—International Study	4
Asia			ANTH 4500	Latin American Society and Development	4
ASNS 1150	East Asian Studies	4	or INTL 4500	Latin American Society and Development	
ASNS 4910	Issues in Modern and Contemporary Asia	4	CLTR 1505	Introduction to Latin American Culture	4
ANTH 4350	Ethnography of Southeast Asia	4	CLTR 1508	Cuban History and Culture through Film	4
or INTL 4350	Ethnography of Southeast Asia		CLTR 1509	An Introduction to Afro-Cuban Culture	4
CLTR 1500	Modern Chinese History and Culture	4	CLTR 1240	Latin American Film	4
CLTR 1506	Introduction to Chinese Popular Culture	4	CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 1700	Introduction to Japanese Pop Culture	4	CLTR 4508	Cuban History through Film—International Study	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4	ENTR 3316	Microfinance and Economic Development in Latin America	4
HIST 1189	Introduction to South Asian History	4	ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
HIST 1252	Japanese Literature and Culture	4	ENTR 3326	Sustainability in the Latin American Business Environment	4
HIST 1253	History of Vietnam Wars	4	ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1254	Mao's China and After	4	HIST 1187	Introduction to Latin American History	4
HIST 1500	Modern Chinese History and Culture	4	HIST 1260	Modern Latin America	4
HIST 2351	Modern Japan	4	LACS 1220	Latino, Latin American, and Caribbean Studies	4
HIST 2352	Dictators and Democracy in Japan and Korea	4	LITR 1260	Caribbean Literature and Culture	4
HIST 3452	Global Chinese Migration	4	LITR 4655	Latin American Literature	4
HIST 4942	East Asian Cultural History Abroad	4	POLS 3475	Government and Politics in Latin America	4
POLS 3485	China: Governance and Foreign Policy	4	Middle East		
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4	INTL 1160	Middle East Studies	4
PHIL 1290	Chinese Philosophy and Religion	4	INTL 2100	Modern Israel	4
PHIL 2394	Chinese Buddhism	4	INTL 2200	America and the Middle East	4
PHIL 2395	Japanese Buddhism	4	INTL 2360	Human Rights in the Middle East	4
PHIL 4545	Religion and Politics in South Asia	4	INTL 2400	Politics of Islam and Gender	4
Europe			INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
CLTR 1501	Introduction to French Culture	4	CLTR 1502	Introduction to Arabic Culture	4
CLTR 1503	Introduction to Italian Culture	4	ECON 1292	Economic History of the Middle East	4
CLTR 1504	Introduction to Spanish Culture	4	HIST 1185	Introduction to Middle Eastern History	4
CLTR 2280	French Film and World War II: The German Occupation of France	4	HIST 1290	Modern Middle East	4
ECON 1293	European Economic History	4	HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4			
HIST 1270	Ancient Greece	4			

HIST 4945	North African History Abroad	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4
Russia		
HIST 1285	Introduction to Russian Civilization	4
HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215	Society and Culture in Russia	4
or INTL 1215	Society and Culture in Russia	4

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	0	Co-op	0
Foreign language core course	4	HUSV 3700	4				
INTL elective	4	HUSV 3900	4				
HSVC elective	4	EXED 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
		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

Human Services and Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Human Services Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	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 Capstone¹

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

A grade of C or higher is required in 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 1200	Sociology of Alcoholism	

SOCL 1220	Sociology of Boston
SOCL 1225	Aging in Society
SOCL 1228	Social Problems
SOCL 1232	American Society
SOCL 1235	Social Psychology
SOCL 1241	Sociology of Violence
SOCL 1245	Sociology of Poverty
SOCL 1246	Environment and Society
SOCL 1247	Urban Social Problems
SOCL 1255	Sociology of the Family
SOCL 1256	Violence in the Family
SOCL 1260	Gender in a Changing Society
SOCL 1275	Social Stratification
SOCL 1283	Globalization and Social Change
SOCL 1285	Deviant Behavior and Social Control
SOCL 1287	Sociology of Religion
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 3402	Feminist Perspectives on Society
SOCL 3406	Class, Crime, and the Legal System
SOCL 3407	The Immigrant Experience: Ethnicity, Race, and Inequality in America
SOCL 3437	Children and Youth in Contemporary Society
SOCL 3441	Sociology of Health and Illness
SOCL 3451	Privilege
SOCL 3455	Seminar in Urban Sociology
SOCL 3460	Sociology of Latino Society
SOCL 3470	Social Conflict and Community Service
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 3487	Applied Sociology: Practice and Theory
ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective
ANTH 2305	Global Markets and Local Culture
ANTH 2312	The Anthropology of Masculinity
ANTH 2330	Environmental Anthropology
ANTH 2350	Urban Anthropology
ANTH 3417	Political Anthropology

Advanced-Level Elective

Complete one of the following: 4

SOCL 4514	"The Wire" and the Study of Urban Inequalities
SOCL 4518	Law and Social Issues
SOCL 4519	Seminar in Social Psychology
SOCL 4520	Race, Class, and Gender

SOCL 4522	Political Ecology and Environmental Justice
SOCL 4521	Ethnic, Racial, and Religious Identity
SOCL 4523	Sexualities
SOCL 4530	Seminar in the Family
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 Seminar¹

SOCL 4600	Senior Seminar	4
-----------	----------------	---

¹ 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

Human Services and Sociology Combined-Major Credit Requirement

Complete 60 semester hours in the major.

Program Requirement

128 total semester hours required

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Human Services Major Requirements**Human Services Overview**

HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	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 4920	International Human Services	
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.

Family and Children's Services

<i>Required</i>		
PSYC 1101	Foundations of Psychology	4
HUSV 3520	Child Intervention and Treatment	4
<i>Electives</i>		
Complete three of the following:		12
EDUC 1111	Education in the Community	
EDUC 1113		
EDUC 3201		
EDUC 3202		
PSYC 2352	Childhood Mental Illness	
PSYC 3404	Developmental Psychology	
SOCL 1255	Sociology of the Family	
SOCL 1256	Violence in the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 3437	Children and Youth in Contemporary Society	

Psychology/Counseling Psychology

<i>Required</i>		
CAEP 3485	Mental Health and Counseling	4
PSYC 1101	Foundations of Psychology	4
<i>Electives</i>		
Complete three of the following:		12
CAEP 3480	Counseling Theories and Practice	
CAEP 4502	Health Counseling	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 3540	Services and Treatments for Chemical Dependencies	
PHIL 1165	Moral and Social Problems in Healthcare	
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		
<i>Required</i>		
COMM 4603	Advocacy Workshop	4
POLS 2385	U.S. Health and Welfare Policy	4
<i>Electives</i>		
Complete three of the following:		12
COMM 1412	Social Movement Communication	
ECON 1240	Economics of Crime	
AFAM 1270	Economic Status of Ethnic Minorities	
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 3550	Social Policy, Advocacy, and Activism	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 3307	Public Policy and Administration	
SOCL 1240	Sociology of Prejudice and Violence	
SOCL 1246	Environment and Society	
SOCL 2270	Race and Ethnic Relations	
Identity and Social Change		
<i>Required</i>		
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	4
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	4
<i>Electives</i>		
Complete three of the following:		12
AFAM 2367	Race and Social Identity	
AFAM 1270	Economic Status of Ethnic Minorities	
ASNS 2245	The Asian-American Experience	
HUSV 2700	Exploring Adoption: Family, Kinship, and Identity in Contemporary America	
HUSV 2900	Gender Violence: Bystander Education Theory and Practice	
HUSV 3550	Social Policy, Advocacy, and Activism	
PHIL 1110	Introduction to Religion	
PHIL 1185	The Ethics of Food	
SOCL 1240	Sociology of Prejudice and Violence	
SOCL 1260	Gender in a Changing Society	
SOCL 1287	Sociology of Religion	
WMNS 1101	Sex, Gender, and Popular Culture	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
WMNS 2480	Women and World Politics	
Applied Behavior Analysis		
<i>Required</i>		
PSYC 1101	Foundations of Psychology	4
PSYC 3358	Behavior Therapies	4
PSYC 3450	Learning and Motivation	4
PSYC 4654	Seminar in Behavioral Modification	4
<i>Electives</i>		

Complete two of the following: 8

PSYC 2352	Childhood Mental Illness
PSYC 2356	Nonverbal Communication
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	
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

Human Services, BS/MS

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Human Services Major Requirements

Human Services Overview

HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	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 4920	International Human Services	
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.

Family and Children's Services

<i>Required</i>		
PSYC 1101	Foundations of Psychology	4
HUSV 3520	Child Intervention and Treatment	4

<i>Electives</i>		
Complete three of the following:		12

EDUC 1111	Education in the Community	
EDUC 1113		
EDUC 3201		
EDUC 3202		
PSYC 2352	Childhood Mental Illness	
PSYC 3404	Developmental Psychology	
SOCL 1255	Sociology of the Family	
SOCL 1256	Violence in the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 3437	Children and Youth in Contemporary Society	

Psychology/Counseling Psychology

<i>Required</i>		
CAEP 3485	Mental Health and Counseling	4
PSYC 1101	Foundations of Psychology	4

<i>Elective</i>		
Complete three of the following:		12

CAEP 3480	Counseling Theories and Practice	
CAEP 4502	Health Counseling	
HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 3540	Services and Treatments for Chemical Dependencies	
PHIL 1165	Moral and Social Problems in Healthcare	
PSYC 3400	Personality	
PSYC 3404	Developmental Psychology	
PSYC 3406	Abnormal Psychology	
NRSO 1205	Wellness	
SOCL 3441	Sociology of Health and Illness	

Social Justice and Social Policy

<i>Required</i>		
COMM 4603	Advocacy Workshop	4
POLS 2385	U.S. Health and Welfare Policy	4

<i>Electives</i>		
Complete three of the following:		12

COMM 1412	Social Movement Communication	
ECON 1240	Economics of Crime	
AFAM 1270	Economic Status of Ethnic Minorities	
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	

HUSV 2800	Sexual Orientation and Gender Expression in Practice and Policy	
HUSV 3550	Social Policy, Advocacy, and Activism	
LPSC 2302	Global Human Rights: A Social and Economic Perspective	
POLS 3307	Public Policy and Administration	
SOCL 1240	Sociology of Prejudice and Violence	
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

AFAM 2367	Race and Social Identity	
AFAM 1270	Economic Status of Ethnic Minorities	
ASNS 2245	The Asian-American Experience	
HUSV 2700	Exploring Adoption: Family, Kinship, and Identity in Contemporary America	
HUSV 2900	Gender Violence: Bystander Education Theory and Practice	
HUSV 3550	Social Policy, Advocacy, and Activism	
SOCL 1240	Sociology of Prejudice and Violence	
SOCL 1260	Gender in a Changing Society	
SOCL 1287	Sociology of Religion	
WMNS 1101	Sex, Gender, and Popular Culture	
WMNS 1103	Introduction to Women's, Gender, and Sexuality Studies	
WMNS 2480	Women and World Politics	

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 two of the following: 8

PSYC 2352	Childhood Mental Illness	
PSYC 2356	Nonverbal Communication	
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.

Graduate Courses taken as an Undergraduate Student

CAEP 6200	Introduction to Counseling: Theory and Process in an Ecological Context	3
-----------	-------------------------------------------------------------------------	---

CAEP 6235	Vocational, Education, and Career Development	3
CAEP 6262	Evaluation and Outcomes Assessment of Community, School, and Health-Related Programs	3
CAEP 6300	Introduction to College Student Development	3
CAEP 6301	Planning and Administering Student Affairs	3

Program Requirement

128 total semester hours required

Minimum GPA of 3.000 is required in all graduate courses.

American Sign Language 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

American Sign Language and Human Services Combined-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 3500	The Interpreting Profession	2
Interpreting		
INTP 3510	Interpreting Inquiry Texts	4
Human Services		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 4700	Senior Seminar in Human Services	4

HUSV 3570	Strategic Philanthropy and Nonprofit Management	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 Course Work		
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
AMSL 1101	4	AMSL 1102	4	Vacation	0
DEAF 1500	4	MATH 1215	4	Vacation	0
HUSV 1101	4	HSVC elective	4		
ENGW 1111	4	Elective	4		
		16	16	0	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
AMSL 2101	4	AMSL 2102	4	Vacation	0
LING 1150	4	DEAF 2700	4	Vacation	0
INTP 4560	4	HUSV 2300	4		
Elective	4	Elective	4		
		16	16	0	0
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
DEAF 2500	4	HUSV 3700	4	Vacation	0
SOCL 3440	4	Elective	4	Vacation	0
INTP 3510	4	ENGW 3315	4		
AMSL 3101	4	AMSL 3102	4		
		16	16	0	0
Year 4					
Fall	Hours	Spring	Hours	Summer 1	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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Human Services Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	4
HUSV 3900	Introduction to Social Policy	4
Research		
Complete one of the following:		4
HUSV 3700	Research Methods for Human Services	
SOCL 2321	Research Methods in Sociology	
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	
COMM 1310	Classical Foundations of Communication	
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 3201	Health Communication	
COMM 3230	Interpersonal Communication	
COMM 3331	Argumentation and Debate	
COMM 3414	Great Speakers and Speeches 2, 1930–Present	
COMM 3415	Communication Criticism	
COMM 3501	Free Speech: Law and Practice	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4131	Sex and Interpersonal Communication	
COMM 4535	Nonverbal Social Interaction	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4605	Youth and Communication Technology	
COMM 4901	Seminar in Communications	
COMM 4918	Special Topics in Communication Studies	
Communication Studies Electives		
Complete three of the following:		12
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	
COMM 1414	Great Speakers and Speeches 1, 1630–1930	
COMM 1511	Communication and Storytelling	
COMM 1990	Elective	
COMM 2105	Social Networks	
COMM 2312	Voice and Articulation	
COMM 2350	Producing for the Entertainment Industry	
COMM 2402	Presentation, Style, and Professional Communication	
COMM 2450	Sound Production for Digital Media	
COMM 2451	Sports Broadcasting	
COMM 2454	Broadcast Management and Programming	
COMM 2531	Application of Organizational Communication	
COMM 2990	Elective	
COMM 3306	International Communication Abroad	
COMM 3409	Advocacy Writing	
COMM 3451	Advertising Practices	
COMM 3534	Group Communication	

COMM 3550	Television Field Production	
COMM 3650	Television Studio Production	
COMM 3990	Elective	
COMM 4630	Assessment Technique and Planning	
COMM 4650	Digital Editing for TV	
COMM 4750	Advanced Digital Editing for TV and Film	
COMM 4916	Organizational Communication Practicum	
COMM 4940	Special Topics in Media Production	
COMM 4990	Elective	
COMM 4992	Directed Study	
COMM 4993	Independent Study	
COMM 4994	Internship in Communication	
COMM 4996	Experiential Education Directed Study	

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 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4603	Advocacy Workshop	
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 from the following range:		4
COMM 3000 to COMM 4999		

Integrative Course

Code	Title	Hours
HUSV 5200	Strategic Communications for Nonprofit Organizations	3

Program Requirement

128 total semester hours required

Human Services 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Foundation Courses

Code	Title	Hours
Introduction to the Major		
CRIM 1000 or HUSV 1000	Criminal Justice at Northeastern Human Services at Northeastern	1

Criminal Justice Foundation Courses

CRIM 1100	Introduction to Criminal Justice	4
CRIM 1300 or CRIM 1400 or CRIM 1500 or CRIM 1600 or CRIM 1700	The Death Penalty Human Trafficking Corruption, Integrity, and Accountability Crimes against Humanity Crime, Media, and Politics	4

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 3570	Strategic Philanthropy and Nonprofit Management	4
HUSV 2300	Counseling in Human Services	4

Upper-Level Courses

Code	Title	Hours
Policy Course		
HUSV 3900	Introduction to Social Policy	4

Organization Course

SOCL 3440 or CRIM 4030	Sociology of Human Service Organizations Criminal Justice Organization and Management	4
---------------------------	------------------------------------------------------------------------------------------	---

Survey Electives

Complete two of the following:		8
CRIM 3010	Criminal Violence	
CRIM 3020	Victims of Crime	
CRIM 3030	Global Criminology	
CRIM 3040	Psychology of Crime	
CRIM 3050	Organized Crime	
CRIM 3100	Criminal Law	
CRIM 3200	Juvenile Justice	
CRIM 3300	Corrections	
CRIM 3400	Security	
CRIM 3500	Policing	
CRIM 3900	Topics in Criminal Justice and Criminology	

Research Methods

CRIM 3600 or HUSV 3700	Criminal Justice Research Methods Research Methods for Human Services	4
---------------------------	--------------------------------------------------------------------------	---

Criminal Justice Elective

Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	

CRIM 4030	Criminal Justice Organization and Management	
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 or HUSV 4700	Senior Capstone Seminar Senior Seminar in Human Services	4

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
HUSV 1000	1	CRIM 1200	4	Vacation	0
CRIM 1100	4	HUSV 2300	4	Vacation	0
HUSV 1101	4	CS 1100	4		
ENGW 1111	4	HSVC elective	4		
MATH 1215	4				
		17		16	
				0	

Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
CRIM 2100	4	CRIM 2000	1	Vacation	0
CRIM 2200	4	CJ concentration elective	4	Co-op	0

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			
	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

Human Services and Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Human Services Requirements

Code	Title	Hours
HUSV 1101	Human Services Professions	4

HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	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

Note: 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).

HUSV 4700	Senior Seminar in Human Services	4
-----------	----------------------------------	---

Sociology Requirements

A grade of C or higher is required in 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 1200	Sociology of Alcoholism	
SOCL 1220	Sociology of Boston	
SOCL 1225	Aging in Society	
SOCL 1228	Social Problems	
SOCL 1232	American Society	
SOCL 1235	Social Psychology	
SOCL 1241	Sociology of Violence	
SOCL 1245	Sociology of Poverty	
SOCL 1246	Environment and Society	
SOCL 1247	Urban Social Problems	
SOCL 1255	Sociology of the Family	
SOCL 1256	Violence in the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1283	Globalization and Social Change	
SOCL 1285	Deviant Behavior and Social Control	

SOCL 1287	Sociology of Religion	
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 3402	Feminist Perspectives on Society	
SOCL 3406	Class, Crime, and the Legal System	
SOCL 3407	The Immigrant Experience: Ethnicity, Race, and Inequality in America	
SOCL 3437	Children and Youth in Contemporary Society	
SOCL 3441	Sociology of Health and Illness	
SOCL 3451	Privilege	
SOCL 3455	Seminar in Urban Sociology	
SOCL 3460	Sociology of Latino Society	
SOCL 3470	Social Conflict and Community Service	
SOCL 3471	Social Conflict and Community Services Abroad	
SOCL 3487	Applied Sociology: Practice and Theory	
ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective	
ANTH 2305	Global Markets and Local Culture	
ANTH 2312	The Anthropology of Masculinity	
ANTH 2315	Religion and Modernity	
ANTH 2330	Environmental Anthropology	
ANTH 2350	Urban Anthropology	
ANTH 3417	Political Anthropology	

Advanced-Level Elective

Complete one of the following:		4
--------------------------------	--	---

SOCL 4514	"The Wire" and the Study of Urban Inequalities	
SOCL 4518	Law and Social Issues	
SOCL 4519	Seminar in Social Psychology	
SOCL 4520	Race, Class, and Gender	
SOCL 4522	Political Ecology and Environmental Justice	
SOCL 4521	Ethnic, Racial, and Religious Identity	
SOCL 4523	Sexualities	
SOCL 4530	Seminar in the Family	
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

Note: With permission of the sociology head advisor, the student may complete human services capstone HUSV 4700 and substitute one advanced sociology elective for SOCL 4600.

SOCL 4600	Senior Seminar	4
-----------	----------------	---

Human Services/Sociology Integrative Course

Code	Title	Hours
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	4

Human Services and Sociology Combined-Major Credit Requirement

Complete 60 semester hours in the major.

Program Requirement

128 total semester hours required

Human Services, Minor

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

Required Courses

HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4

Policy Course

HUSV 3900	Introduction to Social Policy	4
-----------	-------------------------------	---

Organization Course

Complete one of the following: 4

HUSV 3570	Strategic Philanthropy and Nonprofit Management
SOCL 3440	Sociology of Human Service Organizations

Human Services Elective

Complete one HUSV course. 4

GPA Requirement

2.000 GPA required in the minor

International Affairs

Website (<http://www.northeastern.edu/internationalaffairs>)

Valentine M. Moghadam, PhD

Professor, Sociology and International Affairs, and Director, International Affairs Program

201 Renaissance Park
617.373.5472, 617.373.6163
617.373.5367 (fax)

Nora Räsänen, Administrative Coordinator, n.rasanen@northeastern.edu
Kimberly Jones, Head Advisor, k.jones@northeastern.edu
Ioannis Livanis, Advisor, i.livanis@northeastern.edu

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)

- International Affairs (p. 688)
- International Affairs with African Studies Concentration (p. 692)
- International Affairs with Asian Studies Concentration (p. 694)
- International Affairs with European Studies Concentration (p. 696)
- International Affairs with Latin American Studies Concentration (p. 698)
- International Affairs with Middle East Studies Concentration (p. 699)
- Environmental Studies and International Affairs (p. 701)
- Human Services and International Affairs (p. 705)
- International Affairs and Cultural Anthropology (p. 709)
- International Affairs and Economics (p. 712)
- International Affairs and Religious Studies (p. 716)
- Languages, Literatures, and Cultures and International Affairs (p. 721)
- Political Science and International Affairs (p. 725)

Minors

- International Affairs (p. 731)
- Middle East Studies (p. 733)

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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.

Required Courses

INTL 1101	Globalization and 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: 10-12

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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
AFAM 2600	Contemporary Issues: Race, Science, and Technology	
AFAM 2639	Globalism, Racism, and Human Rights	
AFRS 1185	Gender in the African Diaspora	
or INTL 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 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	
ANTH 2350	Urban Anthropology	
ANTH 3415	Anthropology of Travel and Tourism	
COMM 2303	Global and Intercultural Communication	
MSCR 2325	Global Media	
COMM 5240	Global and Intercultural Media	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture	
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 1110	Introduction to World History	
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	
HIST 2312	Global Migration	
HIST 2315	Approaches to World History	
HIST 2317	Comparative Urban Histories	
HIST 2398	Radicals, Terrorists, and Insurgents	
HIST 3412	Global Environmental History	
HIST 3452	Global Chinese Migration	
HUSV 4920	International Human Services	
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 1127	Introduction to World Music	
MUSC 1140	Global Pop Music	
PHIL 1155	Introduction to Human Rights	
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 2302	Philosophical Problems of War and Peace	
PHIL 5001	Global Justice	
PHIL 5003	Ethics, Justice, and Global Climate Change	
PHTH 5230	Global Health	
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 3408	International Security	
POLS 3410	Nontraditional Security Issues	
POLS 3415	Ethnic Political Violence	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3487	Politics of Developing Nations	
POLS 3490	Democracy in Comparative Politics	

POLS 4910	Model United Nations	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
SOCL 1246	Environment and Society	
SOCL 1283	Globalization and Social Change	
SOCL 3465	Globalization and the Evolution of Human Societies	
SOCL 3471	Social Conflict and Community Services Abroad	
SOCL 4522	Political Ecology and Environmental Justice	

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:

Africa

AFRS 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4
ANTH 4510 or INTL 4510	Anthropology of Africa	4
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4
HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4

Asia

ANTH 4350 or INTL 4350	Ethnography of Southeast Asia	4
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4

HIST 1189	Introduction to South Asian History	4
HIST 1252	Japanese Literature and Culture	4
HIST 1253	History of Vietnam Wars	4
HIST 1254	Mao’s China and After	4
HIST 1500	Modern Chinese History and Culture	4
HIST 2351	Modern Japan	4
HIST 2352	Dictators and Democracy in Japan and Korea	4
HIST 3452	Global Chinese Migration	4
HIST 4942	East Asian Cultural History Abroad	4
POLS 3485	China: Governance and Foreign Policy	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4
PHIL 1290	Chinese Philosophy and Religion	4
PHIL 2394	Chinese Buddhism	4
PHIL 2395	Japanese Buddhism	4
PHIL 4545	Religion and Politics in South Asia	4

Europe

CLTR 1501	Introduction to French Culture	4
CLTR 1503	Introduction to Italian Culture	4
CLTR 1504	Introduction to Spanish Culture	4
CLTR 2280	French Film and World War II: The German Occupation of France	4
ECON 1293	European Economic History	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1270	Ancient Greece	4
HIST 1271	Ancient Rome	4
HIST 2280	Hitler, Germany, and the Holocaust	4
HIST 2371	Europe 1870–1921	4
HIST 2372	Gender and Society in Modern Europe	4
HIST 2376	The British Empire	4
HIST 4946	Independent Field Research Abroad: Central Europe	4
POLS 3435	Politics and Governance of Europe and the European Union	4
POLS 4917	Model European Union	4
SOCL 4535	European Union: Social and Political	4

Latin America

AFAM 2301	Foundations of Black Culture 2	4
AFAM 2345	The Black Experience in the Caribbean	4
AFAM 4507	Afro-Cuban Culture—International Study	4
ANTH 4500 or INTL 4500	Latin American Society and Development	4
CLTR 1505	Introduction to Latin American Culture	4
CLTR 1508	Cuban History and Culture through Film	4
CLTR 1509	An Introduction to Afro-Cuban Culture	4
CLTR 1240	Latin American Film	4
CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 4508	Cuban History through Film—International Study	4
ENTR 3316	Microfinance and Economic Development in Latin America	4

ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
ENTR 3326	Sustainability in the Latin American Business Environment	4
ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1187	Introduction to Latin American History	4
HIST 1260	Modern Latin America	4
LACS 1220	Latino, Latin American, and Caribbean Studies	4
LITR 1260	Caribbean Literature and Culture	4
LITR 4655	Latin American Literature	4
POLS 3475	Government and Politics in Latin America	4

Middle East

INTL 1160	Middle East Studies	4
INTL 2100	Modern Israel	4
INTL 2200	America and the Middle East	4
INTL 2360	Human Rights in the Middle East	4
INTL 2400	Politics of Islam and Gender	4
INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
CLTR 1502	Introduction to Arabic Culture	4
ECON 1292	Economic History of the Middle East	4
HIST 1185	Introduction to Middle Eastern History	4
HIST 1290	Modern Middle East	4
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 4945	North African History Abroad	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4

Russia

HIST 1285	Introduction to Russian Civilization	4
HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215 or INTL 1215	Society and Culture in Russia	4

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
Elective	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 elective	4 Co-op	0 Co-op	0 INTL elective	4	
Foreign language course	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	
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

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

International Affairs Major Requirements

Required Courses

AFRS 1101	Introduction to African Studies	4
ANTH 1101	Peoples and Cultures	4
ECON 1115 or ECON 1116	Principles of Macroeconomics or Principles of Microeconomics	4
HIST 2211	The World Since 1945	4
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1155	Comparative Politics	4

African 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

AFRS 1128	The African Experience through Music	
-----------	--------------------------------------	--

AFRS 2307	Africa Today		CLTR 1515	Comparative Analysis of the Lusophone World and Culture	
AFRS 2465	The Scope and Dynamics of Conflicts in Africa		CRIM 4630	Political Crime and Terrorism	
AFRS 2900	Swahili, Culture, and Politics in Kenya		ECON 1290	History of the Global Economy	
AFRS 3460	Contemporary Government and Politics in Africa		ECON 1291	Development Economics	
AFRS 4939	Community Health, Culture, and Development in Kenya		ECON 3404	International Food Economics and Policy	
AFRS 3645	National Model African Union		ECON 4635	International Economics	
ANTH 4510	Anthropology of Africa		ENGL 2450	Postcolonial Literature	
or INTL 4510	Anthropology of Africa		ENTR 2206	Global Social Enterprise	
ENTR 3306	Global Entrepreneurship		ENTR 3306	Global Entrepreneurship	
ENTR 3308	Business Economic History of South Africa		ENVR 1110	Global Climate Change	
HIST 1180	African History		ENVR 4515	Sustainable Development	
HIST 2390	Africa and the World in Early Times		HIST 1110	Introduction to World History	
HIST 2397	Modern Africa		HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
MUSC 1128	Music of Africa		HIST 2211	The World Since 1945	
Global Dynamics			HIST 2214	War in the Modern World	
POLS 1160	International Relations	4	HIST 2311	Colonialism/Imperialism	
Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. The World Since 1945 (HIST 2211), Peoples and Cultures (ANTH 1101), and Comparative Politics (POLS 1155) may not be used as global dynamics courses. See department for additional courses			HIST 2312	Global Migration	
Complete one of the following:			HIST 2315	Approaches to World History	
		4	HIST 2317	Comparative Urban Histories	
INTL 1185	Gender in the African Diaspora		HIST 2398	Radicals, Terrorists, and Insurgents	
or AFRS 1185	Gender in the African Diaspora		HIST 3412	Global Environmental History	
INTL 2240	Global Population and Development		HIST 3452	Global Chinese Migration	
INTL 2300	Religion in International Affairs		HUSV 4920	International Human Services	
INTL 2400	Politics of Islam and Gender		INTB 1203	International Business and Global Social Responsibility	
INTL 2480	Women and World Politics		or INTB 1209	International Business and Global Social Responsibility	
or WMNS 2480	Women and World Politics		INTB 3310	Cultural Aspects of International Business	
INTL 3200	Cities in a Global Context		JRNL 3300	Covering Conflicts: Peace, War, and the Media	
INTL 3460	Transnational Activism in Global Civil Society		or INTL 3300	Covering Conflicts: Peace, War, and the Media	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective		JRNL 5360	Global Reporting	
INTL 5200	Political Economy: Interdisciplinary Perspectives		LPSC 2302	Global Human Rights: A Social and Economic Perspective	
AFAM 2301	Foundations of Black Culture 2		MUSC 1127	Introduction to World Music	
AFAM 2345	The Black Experience in the Caribbean		MUSC 1140	Global Pop Music	
AFAM 2600	Contemporary Issues: Race, Science, and Technology		PHIL 1155	Introduction to Human Rights	
AFAM 2639	Globalism, Racism, and Human Rights		PHIL 2302	Philosophical Problems of War and Peace	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora		PHIL 5001	Global Justice	
ANTH 1101	Peoples and Cultures		PHIL 5003	Ethics, Justice, and Global Climate Change	
ANTH 2305	Global Markets and Local Culture		PHTH 5230	Global Health	
ANTH 2315	Religion and Modernity		POLS 1155	Comparative Politics	
ANTH 2350	Urban Anthropology		POLS 1160	International Relations	
ANTH 3415	Anthropology of Travel and Tourism		POLS 2370	Religion and Politics	
COMM 2303	Global and Intercultural Communication		POLS 3405	International Political Economy	
MSCR 2325	Global Media		POLS 3406	International Law	
COMM 5240	Global and Intercultural Media		POLS 3407	International Organizations	
			POLS 3408	International Security	
			POLS 3410	Nontraditional Security Issues	

POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

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**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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

International Affairs Major Requirements**Required Courses**

ANTH 1101	Peoples and Cultures	4
ASNS 1150	East Asian Studies	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 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
ASNS 4910	Issues in Modern and Contemporary Asia
CLTR 1500	Modern Chinese History and Culture
CLTR 1506	Introduction to Chinese Popular Culture
CLTR 1700	Introduction to Japanese Pop Culture
CLTR 2501	Chinese Film: Gender and Ethnicity
HIST 1189	Introduction to South Asian History
HIST 1252	Japanese Literature and Culture
HIST 1253	History of Vietnam Wars
HIST 1254	Mao's China and After
HIST 1500	Modern Chinese History and Culture
HIST 2351	Modern Japan
HIST 2352	Dictators and Democracy in Japan and Korea
HIST 3452	Global Chinese Migration
HIST 4942	East Asian Cultural History Abroad
POLS 3485	China: Governance and Foreign Policy
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	HUSV 4920	International Human Services	
Complete one of the following: ¹		4	INTB 1203	International Business and Global Social Responsibility	
INTL 2240	Global Population and Development		or INTB 1209	International Business and Global Social Responsibility	
INTL 2300	Religion in International Affairs		INTB 3310	Cultural Aspects of International Business	
INTL 2400	Politics of Islam and Gender		JRNL 3300	Covering Conflicts: Peace, War, and the Media	
INTL 2480	Women and World Politics		or INTL 3300	Covering Conflicts: Peace, War, and the Media	
or WMNS 2480	Women and World Politics		JRNL 5360	Global Reporting	
INTL 3200	Cities in a Global Context		LPSC 2302	Global Human Rights: A Social and Economic Perspective	
INTL 3460	Transnational Activism in Global Civil Society		MUSC 1127	Introduction to World Music	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective		MUSC 1140	Global Pop Music	
INTL 5200	Political Economy: Interdisciplinary Perspectives		PHIL 1155	Introduction to Human Rights	
AFAM 2301	Foundations of Black Culture 2		PHIL 2302	Philosophical Problems of War and Peace	
AFAM 2345	The Black Experience in the Caribbean		PHIL 5001	Global Justice	
AFAM 2600	Contemporary Issues: Race, Science, and Technology		PHIL 5003	Ethics, Justice, and Global Climate Change	
AFAM 2639	Globalism, Racism, and Human Rights		PHTH 5230	Global Health	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora		POLS 1155	Comparative Politics	
ANTH 1101	Peoples and Cultures		POLS 1160	International Relations	
ANTH 2305	Global Markets and Local Culture		POLS 2370	Religion and Politics	
ANTH 2315	Religion and Modernity		POLS 3405	International Political Economy	
ANTH 2350	Urban Anthropology		POLS 3406	International Law	
ANTH 3415	Anthropology of Travel and Tourism		POLS 3407	International Organizations	
COMM 2303	Global and Intercultural Communication		POLS 3408	International Security	
MSCR 2325	Global Media		POLS 3410	Nontraditional Security Issues	
COMM 5240	Global and Intercultural Media		POLS 3415	Ethnic Political Violence	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture		POLS 3420	U.S. National Security Policy	
CRIM 4630	Political Crime and Terrorism		POLS 3430	Revolution, Civil War, and Insurrection	
ECON 1290	History of the Global Economy		POLS 3487	Politics of Developing Nations	
ECON 1291	Development Economics		POLS 3490	Democracy in Comparative Politics	
ECON 3404	International Food Economics and Policy		POLS 4910	Model United Nations	
ECON 4635	International Economics		POLS 4918	Model NATO	
ENGL 2450	Postcolonial Literature		POLS 4938	Dialogue of Civilizations: International Politics Abroad	
ENTR 2206	Global Social Enterprise		PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	
ENTR 3306	Global Entrepreneurship		PHIL 1271	Sex in Judaism, Christianity, and Islam	
ENVR 1110	Global Climate Change		PHIL 1272	Ethics in the World's Religions	
ENVR 4515	Sustainable Development		SOCL 1246	Environment and Society	
HIST 1110	Introduction to World History		SOCL 1283	Globalization and Social Change	
HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804		SOCL 3465	Globalization and the Evolution of Human Societies	
HIST 2211	The World Since 1945		SOCL 3471	Social Conflict and Community Services Abroad	
HIST 2214	War in the Modern World		SOCL 4522	Political Ecology and Environmental Justice	
HIST 2311	Colonialism/Imperialism		Senior Seminar/Experiential Learning		
HIST 2312	Global Migration		INTL 4700	Senior Capstone Seminar in International Affairs	4
HIST 2315	Approaches to World History		International Experience in Asia		
HIST 2317	Comparative Urban Histories				
HIST 2398	Radicals, Terrorists, and Insurgents				
HIST 3412	Global Environmental History				
HIST 3452	Global Chinese Migration				

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.

¹ Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. The World Since 1945 (HIST 2211), Peoples and Cultures (ANTH 1101), and Comparative Politics (POLS 1155) may not be used as global dynamics courses. See department for additional courses.

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

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

International Affairs Major Requirements

Required Courses

ANTH 1101	Peoples and Cultures	4
INTL 1101	Globalization and International Affairs	4
ECON 1115 or ECON 1116	Principles of Macroeconomics Principles of Microeconomics	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:

CLTR 1501	Introduction to French Culture	
CLTR 1503	Introduction to Italian Culture	
CLTR 1504	Introduction to Spanish Culture	
CLTR 2280	French Film and World War II: The German Occupation of France	
ECON 1293	European Economic History	
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	
HIST 1270	Ancient Greece	
HIST 1271	Ancient Rome	
HIST 2280	Hitler, Germany, and the Holocaust	
HIST 2371	Europe 1870–1921	
HIST 2372	Gender and Society in Modern Europe	
HIST 2376	The British Empire	
HIST 4946	Independent Field Research Abroad: Central Europe	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 4917	Model European Union	
SOCL 4535	European Union: Social and Political	

Global Dynamics

POLS 1160	International Relations	4
-----------	-------------------------	---

Complete one of the following:¹

INTL 1185 or AFRS 1185	Gender in the African Diaspora Gender in the African Diaspora	4
INTL 2240	Global Population and Development	
INTL 2300	Religion in International Affairs	
INTL 2400	Politics of Islam and Gender	
INTL 2480 or WMNS 2480	Women and World Politics Women and World Politics	
INTL 3200	Cities in a Global Context	
INTL 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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 2305	Global Markets and Local Culture	
ANTH 2315	Religion and Modernity	

ANTH 2350	Urban Anthropology
ANTH 3415	Anthropology of Travel and Tourism
COMM 2303	Global and Intercultural Communication
MSCR 2325	Global Media
COMM 5240	Global and Intercultural Media
CLTR 1515	Comparative Analysis of the Lusophone World and Culture
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 1110	Introduction to World History
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
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2317	Comparative Urban Histories
HIST 2398	Radicals, Terrorists, and Insurgents
HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HUSV 4920	International Human Services
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 1127	Introduction to World Music
MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace
PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

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.

¹ Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. The World Since 1945 (HIST 2211), Peoples and Cultures (ANTH 1101), and Comparative Politics (POLS 1155) may not be used as global dynamics courses. See department for additional courses.

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

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

International Affairs Major Requirements

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 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

AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
AFAM 4507	Afro-Cuban Culture—International Study	
ANTH 4500	Latin American Society and Development	
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	
CLTR 1508	Cuban History and Culture through Film	
CLTR 1509	An Introduction to Afro-Cuban Culture	
CLTR 1240	Latin American Film	
CLTR 4507	Afro-Cuban Culture—International Study	
CLTR 4508	Cuban History through Film—International Study	

ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENVR 2942	Maritime History and Culture: The Caribbean	
HIST 1187	Introduction to Latin American History	
HIST 1260	Modern Latin America	
LACS 1220	Latino, Latin American, and Caribbean Studies	
LITR 1260	Caribbean Literature and Culture	
LITR 4655	Latin American Literature	
POLS 3475	Government and Politics in Latin America	

Global Dynamics

POLS 1160	International Relations	4
Complete one of the following: ¹		4
INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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	
ANTH 3415	Anthropology of Travel and Tourism	
COMM 2303	Global and Intercultural Communication	
MSCR 2325	Global Media	
COMM 5240	Global and Intercultural Media	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture	
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 1110	Introduction to World History
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
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2317	Comparative Urban Histories
HIST 2398	Radicals, Terrorists, and Insurgents
HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HUSV 4920	International Human Services
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 1127	Introduction to World Music
MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace
PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

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.

¹ Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. The World Since 1945 (HIST 2211), Peoples and Cultures (ANTH 1101), and Comparative Politics (POLS 1155) may not be used as global dynamics courses. See department for additional courses.

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 Middle East Studies Concentration, BA

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

International Affairs Major Requirements**Required Courses**

INTL 1101	Globalization and International Affairs	4
INTL 1160	Middle East Studies	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 1160	Middle East Studies	
INTL 2100	Modern Israel	
INTL 2200	America and the Middle East	
INTL 2360	Human Rights in 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	
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	
HIST 4945	North African History Abroad	
JWSS 2500	Zionism and the Challenges of Jewish Statehood	
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	4
-----------	-------------------------	---

Complete one of the following: ² 4

INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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	
ANTH 3415	Anthropology of Travel and Tourism	
COMM 2303	Global and Intercultural Communication	
MSCR 2325	Global Media	
COMM 5240	Global and Intercultural Media	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture	
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 1110	Introduction to World History	
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	
HIST 2312	Global Migration	
HIST 2315	Approaches to World History	
HIST 2317	Comparative Urban Histories	
HIST 2398	Radicals, Terrorists, and Insurgents	
HIST 3412	Global Environmental History	

HIST 3452	Global Chinese Migration	
HUSV 4920	International Human Services	
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 1127	Introduction to World Music	
MUSC 1140	Global Pop Music	
PHIL 1155	Introduction to Human Rights	
PHIL 2302	Philosophical Problems of War and Peace	
PHIL 5001	Global Justice	
PHIL 5003	Ethics, Justice, and Global Climate Change	
PHTH 5230	Global Health	
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 3408	International Security	
POLS 3410	Nontraditional Security Issues	
POLS 3415	Ethnic Political Violence	
POLS 3420	U.S. National Security Policy	
POLS 3430	Revolution, Civil War, and Insurrection	
POLS 3487	Politics of Developing Nations	
POLS 3490	Democracy in Comparative Politics	
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	
SOCL 1283	Globalization and Social Change	
SOCL 3465	Globalization and the Evolution of Human Societies	
SOCL 3471	Social Conflict and Community Services Abroad	
SOCL 4522	Political Ecology and Environmental Justice	
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 (a) complete a Dialogue of Civilizations program, co-op, or internship or b) 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.

² Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. The World Since 1945 (HIST 2211), Peoples and Cultures (ANTH 1101), and Comparative Politics (POLS 1155) may not be used as global dynamics courses. See department for additional courses.

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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Environmental Studies Requirements

Code	Title	Hours
Social Science Component		
<i>Philosophy</i>		
PHIL 1180	Environmental Ethics	4
or PHIL 3480	Environmental Philosophy	
<i>Sociology</i>		
SOCL 1246	Environment and Society	4

<i>Political Science</i>		
POLS 2395	Environmental Politics and Policy	4
Science Component		
<i>Biology</i>		
BIOL 1141	Microbes and Society	4
or BIOL 1143	Biology and Society	
<i>Earth and Environmental Sciences</i>		
Complete one of the following:		4
ENVR 1200	Dynamic Earth	
ENVR 1110	Global Climate Change	
ENVR 1112	Environmental Geology	
ENVR 1104	Natural Disasters and Catastrophes	
<i>Environment</i>		
ENVR 1101	Environmental Science	4
<i>Quantitative Methods</i>		
Complete one of the following:		4-5
ENVR 3300	Geographic Information Systems and Lab for ENVR 3301	
MATH 2280	Statistics and Software	
<i>Planning</i>		
ENVR 5210	Environmental Planning	4
or ENVR 5250	Geology and Land-Use Planning	

International Affairs Requirements

Code	Title	Hours
Required Courses		
INTL 1101	Globalization and International Affairs	4
INTL 3400	International Conflict and Negotiation	4
POLS 1160	International Relations	4
Global Dynamics		
See department for additional courses.		
Complete three of the following: ¹		10-12
INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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	
ANTH 3415	Anthropology of Travel and Tourism	
COMM 2303	Global and Intercultural Communication	
MSCR 2325	Global Media	
COMM 5240	Global and Intercultural Media	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture	
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 1110	Introduction to World History	
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	
HIST 2312	Global Migration	
HIST 2315	Approaches to World History	
HIST 2317	Comparative Urban Histories	
HIST 2398	Radicals, Terrorists, and Insurgents	
HIST 3412	Global Environmental History	
HIST 3452	Global Chinese Migration	
HUSV 4920	International Human Services	
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 1127	Introduction to World Music	
MUSC 1140	Global Pop Music	
PHIL 1155	Introduction to Human Rights	
PHIL 2302	Philosophical Problems of War and Peace	
PHIL 5001	Global Justice	
PHIL 5003	Ethics, Justice, and Global Climate Change	
PHTH 5230	Global Health	
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

International Experiential Learning

Complete at least one “international semester” via study abroad, international internship, international co-op, or two short-term programs.

¹ International Relations (POLS 1160) and is not permitted to count in the Global Dynamics area for the Environmental Studies and International Affairs, BA as the course is required for the major.

Regional Analysis Requirement

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:

Code	Title	Hours
Africa		
AFRS 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 3645	National Model African Union	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
ANTH 4510	Anthropology of Africa	4

or INTL 4510	Anthropology of Africa	
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4
HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4
Asia		
ANTH 4350	Ethnography of Southeast Asia	4
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4
HIST 1189	Introduction to South Asian History	4
HIST 1252	Japanese Literature and Culture	4
HIST 1253	History of Vietnam Wars	4
HIST 1254	Mao's China and After	4
HIST 1500	Modern Chinese History and Culture	4
HIST 2351	Modern Japan	4
HIST 2352	Dictators and Democracy in Japan and Korea	4
HIST 3452	Global Chinese Migration	4
HIST 4942	East Asian Cultural History Abroad	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4
PHIL 1290	Chinese Philosophy and Religion	4
PHIL 2394	Chinese Buddhism	4
PHIL 2395	Japanese Buddhism	4
PHIL 4545	Religion and Politics in South Asia	4
POLS 3485	China: Governance and Foreign Policy	4

Europe

CLTR 1501	Introduction to French Culture	4
CLTR 1503	Introduction to Italian Culture	4
CLTR 1504	Introduction to Spanish Culture	4
CLTR 2280	French Film and World War II: The German Occupation of France	4
ECON 1293	European Economic History	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1270	Ancient Greece	4
HIST 1271	Ancient Rome	4
HIST 2280	Hitler, Germany, and the Holocaust	4
HIST 2371	Europe 1870–1921	4
HIST 2372	Gender and Society in Modern Europe	4
HIST 2376	The British Empire	4
HIST 4946	Independent Field Research Abroad: Central Europe	4
POLS 3435	Politics and Governance of Europe and the European Union	4
POLS 4917	Model European Union	4

SOCL 4535	European Union: Social and Political	4
Latin America		
AFAM 2301	Foundations of Black Culture 2	4
AFAM 2345	The Black Experience in the Caribbean	4
AFAM 4507	Afro-Cuban Culture—International Study	4
ANTH 4500	Latin American Society and Development	4
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	4
CLTR 1508	Cuban History and Culture through Film	4
CLTR 1509	An Introduction to Afro-Cuban Culture	4
CLTR 1240	Latin American Film	4
CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 4508	Cuban History through Film—International Study	4
ENTR 3316	Microfinance and Economic Development in Latin America	4
ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
ENTR 3326	Sustainability in the Latin American Business Environment	4
ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1187	Introduction to Latin American History	4
HIST 1260	Modern Latin America	4
LACS 1220	Latino, Latin American, and Caribbean Studies	4
LITR 1260	Caribbean Literature and Culture	4
LITR 4655	Latin American Literature	4
POLS 3475	Government and Politics in Latin America	4
Middle East		
INTL 1160	Middle East Studies	4
INTL 2100	Modern Israel	4
INTL 2200	America and the Middle East	4
INTL 2360	Human Rights in the Middle East	4
INTL 2400	Politics of Islam and Gender	4
INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
CLTR 1502	Introduction to Arabic Culture	4
ECON 1292	Economic History of the Middle East	4
HIST 1185	Introduction to Middle Eastern History	4
HIST 1290	Modern Middle East	4
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 4945	North African History Abroad	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4

PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4
Russia		
HIST 1285	Introduction to Russian Civilization	4
HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215	Society and Culture in Russia	4
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.

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
ENGW 1111	4	SOCL 1246	4	Vacation	0
ENVR 1101	4	ENVR 1445	4	Vacation	0
INTL 1101	4	HIST 2211	4		
POLS 1150	4	POLS 1155	4		
POLS 1151	0	POLS 1156	0		
		16	16	0	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
ENVR 1200	4	POLS 2395	4	Vacation	0
MATH 1251	4	PHIL 3480	4	Co-op	0
Foreign language course	4	Foreign language course	4		

INAF regional analysis course	4	INAF regional analysis course	4		
	16		16	0	0
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	International experiential learning	16	ENVR 3300	4
				Co-op	0
			ENVR 3301		1
			INAF global dynamics course		4
	0		16	9	0
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	ENGR 3315	4	ECON 3423	4
		INTL 3400	4	INTL 4700	4
		ENVR 5210	4		
		INAF global dynamics course	4		
	0		16	8	0
Year 5					
Fall	Hours	Spring	Hours		
Co-op	0	ENVR undergraduate elective	4		
		INAF global dynamics course	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
ENGR 1111	4	SOCL 1246	4	Vacation	0
ENVR 1101	4	ENVR 1445	4		
INTL 1101	4	HIST 2211	4		
POLS 1150	4	POLS 1155	4		
POLS 1151	0	POLS 1156	0		
	16		16	0	0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
ENVR 1200	4	Co-op	0	Co-op	0
INAF regional analysis course	4			Foreign language course	4
Foreign language course	4				

MATH 1251	4				
	16	0	0		8
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
International experiential learning	16	Co-op	0	Co-op	0
				INAF global dynamics course	4
				ENVR 3300	4
				ENVR 3301	1
	16	0	0		9
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
ENVR 5210	4	Co-op	0	Co-op	0
INAF global dynamics course	4				
ENGR 3315	4				
INTL 3400	4				
	16	0	0		0
Year 5					
Fall	Hours	Spring	Hours		
PHIL 3480	4	INTL 4700	4		
Foreign language course	4	INAF regional analysis course	4		
INAF global dynamics course	4	ENVR undergraduate elective	4		
ECON 3423	4	Elective	4		
	16		16		

Total Hours: 129

Human Services 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Human Services Requirements

Code	Title	Hours
Required Courses		

HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	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.

International Affairs Requirements

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: ¹ 8

INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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	
ANTH 3415	Anthropology of Travel and Tourism	
COMM 2303	Global and Intercultural Communication	

MSCR 2325	Global Media	
COMM 5240	Global and Intercultural Media	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture	
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 1110	Introduction to World History	
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	
HIST 2312	Global Migration	
HIST 2315	Approaches to World History	
HIST 2317	Comparative Urban Histories	
HIST 2398	Radicals, Terrorists, and Insurgents	
HIST 3412	Global Environmental History	
HIST 3452	Global Chinese Migration	
HUSV 4920	International Human Services	
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 1127	Introduction to World Music	
MUSC 1140	Global Pop Music	
PHIL 1155	Introduction to Human Rights	
PHIL 2302	Philosophical Problems of War and Peace	
PHIL 5001	Global Justice	
PHIL 5003	Ethics, Justice, and Global Climate Change	
PHTH 5230	Global Health	
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two short-term programs.

¹ International Relations (POLS 1160) and International Conflict and Negotiation (INTL 3400) are not permitted to count in the Global Dynamics area for the Human Services and International Affairs, BA as they are required in other areas of the major.

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 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4
ANTH 4510	Anthropology of Africa	4
or INTL 4510	Anthropology of Africa	
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4

HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4
Asia		
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
ANTH 4350	Ethnography of Southeast Asia	4
or INTL 4350	Ethnography of Southeast Asia	
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4
HIST 1189	Introduction to South Asian History	4
HIST 1252	Japanese Literature and Culture	4
HIST 1253	History of Vietnam Wars	4
HIST 1254	Mao's China and After	4
HIST 1500	Modern Chinese History and Culture	4
HIST 2351	Modern Japan	4
HIST 2352	Dictators and Democracy in Japan and Korea	4
HIST 3452	Global Chinese Migration	4
HIST 4942	East Asian Cultural History Abroad	4
POLS 3485	China: Governance and Foreign Policy	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4
PHIL 1290	Chinese Philosophy and Religion	4
PHIL 2394	Chinese Buddhism	4
PHIL 2395	Japanese Buddhism	4
PHIL 4545	Religion and Politics in South Asia	4
Europe		
CLTR 1501	Introduction to French Culture	4
CLTR 1503	Introduction to Italian Culture	4
CLTR 1504	Introduction to Spanish Culture	4
CLTR 2280	French Film and World War II: The German Occupation of France	4
ECON 1293	European Economic History	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1270	Ancient Greece	4
HIST 1271	Ancient Rome	4
HIST 2280	Hitler, Germany, and the Holocaust	4
HIST 2371	Europe 1870–1921	4
HIST 2372	Gender and Society in Modern Europe	4
HIST 2376	The British Empire	4
HIST 4946	Independent Field Research Abroad: Central Europe	4
POLS 3435	Politics and Governance of Europe and the European Union	4
POLS 4917	Model European Union	4
SOCL 4535	European Union: Social and Political	4
Latin America		
AFAM 2301	Foundations of Black Culture 2	4
AFAM 2345	The Black Experience in the Caribbean	4

AFAM 4507	Afro-Cuban Culture—International Study	4
ANTH 4500	Latin American Society and Development	4
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	4
CLTR 1508	Cuban History and Culture through Film	4
CLTR 1509	An Introduction to Afro-Cuban Culture	4
CLTR 1240	Latin American Film	4
CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 4508	Cuban History through Film—International Study	4
ENTR 3316	Microfinance and Economic Development in Latin America	4
ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
ENTR 3326	Sustainability in the Latin American Business Environment	4
ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1187	Introduction to Latin American History	4
HIST 1260	Modern Latin America	4
LACS 1220	Latino, Latin American, and Caribbean Studies	4
LITR 1260	Caribbean Literature and Culture	4
LITR 4655	Latin American Literature	4
POLS 3475	Government and Politics in Latin America	4
Middle East		
INTL 1160	Middle East Studies	4
INTL 2100	Modern Israel	4
INTL 2200	America and the Middle East	4
INTL 2360	Human Rights in the Middle East	4
INTL 2400	Politics of Islam and Gender	4
INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
CLTR 1502	Introduction to Arabic Culture	4
ECON 1292	Economic History of the Middle East	4
HIST 1185	Introduction to Middle Eastern History	4
HIST 1290	Modern Middle East	4
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 4945	North African History Abroad	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4
Russia		
HIST 1285	Introduction to Russian Civilization	4

HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215	Society and Culture in Russia	4
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.

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 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 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	4	Vacation	0
INTL 1000	1	Foreign language 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 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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

International Affairs Requirements

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 DynamicsComplete two of the following: ¹ 6-8

INTL 1185 or AFRS 1185	Gender in the African Diaspora
INTL 2240	Global Population and Development
INTL 2300	Religion in International Affairs
INTL 2400	Politics of Islam and Gender
INTL 2480 or WMNS 2480	Women and World Politics
INTL 3200	Cities in a Global Context
INTL 3460	Transnational Activism in Global Civil Society
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective
INTL 5200	Political Economy: Interdisciplinary Perspectives
AFAM 2301	Foundations of Black Culture 2
AFAM 2345	The Black Experience in the Caribbean
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
ANTH 3415	Anthropology of Travel and Tourism
COMM 2303	Global and Intercultural Communication
MSCR 2325	Global Media
COMM 5240	Global and Intercultural Media
CLTR 1515	Comparative Analysis of the Lusophone World and Culture
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 1110	Introduction to World History
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
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2317	Comparative Urban Histories
HIST 2398	Radicals, Terrorists, and Insurgents

HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HUSV 4920	International Human Services
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 1127	Introduction to World Music
MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace
PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

International Experiential Learning

Complete at least one “international semester” via study abroad, international internship, international co-op, or two approved short-term programs abroad.

¹ Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Global Markets and Local Culture (ANTH 2305) and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Regional Analysis Requirement

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:

Code	Title	Hours
Africa		
AFRS 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4
ANTH 4510 or INTL 4510	Anthropology of Africa	4
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4
HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4
Asia		
ANTH 4350 or INTL 4350	Ethnography of Southeast Asia	4
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4
HIST 1189	Introduction to South Asian History	4
HIST 1252	Japanese Literature and Culture	4
HIST 1253	History of Vietnam Wars	4
HIST 1254	Mao’s China and After	4
HIST 1500	Modern Chinese History and Culture	4
HIST 2351	Modern Japan	4
HIST 2352	Dictators and Democracy in Japan and Korea	4
HIST 3452	Global Chinese Migration	4
HIST 4942	East Asian Cultural History Abroad	4

POLS 3485	China: Governance and Foreign Policy	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4
PHIL 1290	Chinese Philosophy and Religion	4
PHIL 2394	Chinese Buddhism	4
PHIL 2395	Japanese Buddhism	4
PHIL 4545	Religion and Politics in South Asia	4
Europe		
CLTR 1501	Introduction to French Culture	4
CLTR 1503	Introduction to Italian Culture	4
CLTR 1504	Introduction to Spanish Culture	4
CLTR 2280	French Film and World War II: The German Occupation of France	4
ECON 1293	European Economic History	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1270	Ancient Greece	4
HIST 1271	Ancient Rome	4
HIST 2280	Hitler, Germany, and the Holocaust	4
HIST 2371	Europe 1870–1921	4
HIST 2372	Gender and Society in Modern Europe	4
HIST 2376	The British Empire	4
HIST 4946	Independent Field Research Abroad: Central Europe	4
POLS 3435	Politics and Governance of Europe and the European Union	4
POLS 4917	Model European Union	4
SOCL 4535	European Union: Social and Political	4
Latin America		
AFAM 2301	Foundations of Black Culture 2	4
AFAM 2345	The Black Experience in the Caribbean	4
AFAM 4507	Afro-Cuban Culture—International Study	4
ANTH 4500 or INTL 4500	Latin American Society and Development	4
CLTR 1505	Introduction to Latin American Culture	4
CLTR 1508	Cuban History and Culture through Film	4
CLTR 1509	An Introduction to Afro-Cuban Culture	4
CLTR 1240	Latin American Film	4
CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 4508	Cuban History through Film—International Study	4
ENTR 3316	Microfinance and Economic Development in Latin America	4
ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
ENTR 3326	Sustainability in the Latin American Business Environment	4
ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1187	Introduction to Latin American History	4
HIST 1260	Modern Latin America	4
LACS 1220	Latino, Latin American, and Caribbean Studies	4
LITR 1260	Caribbean Literature and Culture	4

LITR 4655	Latin American Literature	4
POLS 3475	Government and Politics in Latin America	4
Middle East		
INTL 1160	Middle East Studies	4
INTL 2100	Modern Israel	4
INTL 2200	America and the Middle East	4
INTL 2360	Human Rights in the Middle East	4
INTL 2400	Politics of Islam and Gender	4
INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
CLTR 1502	Introduction to Arabic Culture	4
ECON 1292	Economic History of the Middle East	4
HIST 1185	Introduction to Middle Eastern History	4
HIST 1290	Modern Middle East	4
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 4945	North African History Abroad	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4
Russia		
HIST 1285	Introduction to Russian Civilization	4
HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215 or INTL 1215	Society and Culture in Russia Society and Culture in Russia	4

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		
A grade of C or higher is required:		
ANTH 1101	Peoples and Cultures	4
ANTH 3421	Foundations of Anthropological Theory	4
ANTH 3410	Ethnographic Field Experience	4
Anthropology Electives		

Complete three courses from 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:

ANTH 2300 to ANTH 4999

Advanced Area Courses

Complete two of the following. A grade of C or higher is required:

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 or INTL 4700	Senior Seminar Senior Capstone Seminar in International Affairs	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.

International Affairs and Anthropology Combined-Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

International Affairs and Economics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

International Affairs Requirements

Code	Title	Hours
International Affairs/Economics at Northeastern		

INTL 1000 or ECON 1000	International Affairs at Northeastern Economics at Northeastern	1	HIST 1218	Pirates, Planters, and Patriots: Making the Americas, 1492–1804	
Required Courses			HIST 2211	The World Since 1945	
INTL 1101	Globalization and International Affairs	4	HIST 2214	War in the Modern World	
INTL 3400	International Conflict and Negotiation	4	HIST 2311	Colonialism/Imperialism	
POLS 1160	International Relations	4	HIST 2312	Global Migration	
ANTH 1101 or HIST 2211	Peoples and Cultures The World Since 1945	4	HIST 2315	Approaches to World History	
Global Dynamics			HIST 2317	Comparative Urban Histories	
Complete three of the following courses with one course numbered 2000 or above: ¹		10-12	HIST 2398	Radicals, Terrorists, and Insurgents	
INTL 1185 or AFRS 1185	Gender in the African Diaspora Gender in the African Diaspora		HIST 3412	Global Environmental History	
INTL 2240	Global Population and Development		HIST 3452	Global Chinese Migration	
INTL 2300	Religion in International Affairs		HUSV 4920	International Human Services	
INTL 2400	Politics of Islam and Gender		INTB 1203	International Business and Global Social Responsibility	
INTL 2480 or WMNS 2480	Women and World Politics Women and World Politics		or INTB 1209	International Business and Global Social Responsibility	
INTL 3200	Cities in a Global Context		INTB 3310	Cultural Aspects of International Business	
INTL 3460	Transnational Activism in Global Civil Society		JRNL 3300	Covering Conflicts: Peace, War, and the Media	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective		or INTL 3300	Covering Conflicts: Peace, War, and the Media	
INTL 5200	Political Economy: Interdisciplinary Perspectives		JRNL 5360	Global Reporting	
AFAM 2301	Foundations of Black Culture 2		LPSC 2302	Global Human Rights: A Social and Economic Perspective	
AFAM 2345	The Black Experience in the Caribbean		MUSC 1127	Introduction to World Music	
AFAM 2600	Contemporary Issues: Race, Science, and Technology		MUSC 1140	Global Pop Music	
AFAM 2639	Globalism, Racism, and Human Rights		PHIL 1155	Introduction to Human Rights	
AFRS 3424	Epidemiology of Pandemic Diseases and Health Disparities in the African Diaspora		PHIL 2302	Philosophical Problems of War and Peace	
ANTH 1101	Peoples and Cultures		PHIL 5001	Global Justice	
ANTH 2305	Global Markets and Local Culture		PHIL 5003	Ethics, Justice, and Global Climate Change	
ANTH 2315	Religion and Modernity		PHTH 5230	Global Health	
ANTH 2350	Urban Anthropology		POLS 1155	Comparative Politics	
ANTH 3415	Anthropology of Travel and Tourism		POLS 1160	International Relations	
COMM 2303	Global and Intercultural Communication		POLS 2370	Religion and Politics	
MSCR 2325	Global Media		POLS 3405	International Political Economy	
COMM 5240	Global and Intercultural Media		POLS 3406	International Law	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture		POLS 3407	International Organizations	
CRIM 4630	Political Crime and Terrorism		POLS 3408	International Security	
ECON 1290	History of the Global Economy		POLS 3410	Nontraditional Security Issues	
ECON 1291	Development Economics		POLS 3415	Ethnic Political Violence	
ECON 3404	International Food Economics and Policy		POLS 3420	U.S. National Security Policy	
ECON 4635	International Economics		POLS 3430	Revolution, Civil War, and Insurrection	
ENGL 2450	Postcolonial Literature		POLS 3487	Politics of Developing Nations	
ENR 2206	Global Social Enterprise		POLS 3490	Democracy in Comparative Politics	
ENR 3306	Global Entrepreneurship		POLS 4910	Model United Nations	
ENVR 1110	Global Climate Change		POLS 4918	Model NATO	
ENVR 4515	Sustainable Development		POLS 4938	Dialogue of Civilizations: International Politics Abroad	
HIST 1110	Introduction to World History		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	

SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

¹ Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. International Relations (POLS 1160) may not be used as a global dynamics course.

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 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4
ANTH 4510	Anthropology of Africa	4
or INTL 4510	Anthropology of Africa	
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4
HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4
Asia		
ANTH 4350	Ethnography of Southeast Asia	4
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4
HIST 1189	Introduction to South Asian History	4
HIST 1252	Japanese Literature and Culture	4
HIST 1253	History of Vietnam Wars	4
HIST 1254	Mao's China and After	4
HIST 1500	Modern Chinese History and Culture	4
HIST 2351	Modern Japan	4

HIST 2352	Dictators and Democracy in Japan and Korea	4
HIST 3452	Global Chinese Migration	4
HIST 4942	East Asian Cultural History Abroad	4
POLS 3485	China: Governance and Foreign Policy	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4
PHIL 1290	Chinese Philosophy and Religion	4
PHIL 2394	Chinese Buddhism	4
PHIL 2395	Japanese Buddhism	4
PHIL 4545	Religion and Politics in South Asia	4

Europe

CLTR 1501	Introduction to French Culture	4
CLTR 1503	Introduction to Italian Culture	4
CLTR 1504	Introduction to Spanish Culture	4
CLTR 2280	French Film and World War II: The German Occupation of France	4
ECON 1293	European Economic History	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1270	Ancient Greece	4
HIST 1271	Ancient Rome	4
HIST 2280	Hitler, Germany, and the Holocaust	4
HIST 2371	Europe 1870–1921	4
HIST 2372	Gender and Society in Modern Europe	4
HIST 2376	The British Empire	4
HIST 4946	Independent Field Research Abroad: Central Europe	4
POLS 3435	Politics and Governance of Europe and the European Union	4
POLS 4917	Model European Union	4
SOCL 4535	European Union: Social and Political	4

Latin America

AFAM 2301	Foundations of Black Culture 2	4
AFAM 2345	The Black Experience in the Caribbean	4
AFAM 4507	Afro-Cuban Culture—International Study	4
ANTH 4500	Latin American Society and Development	4
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	4
CLTR 1508	Cuban History and Culture through Film	4
CLTR 1509	An Introduction to Afro-Cuban Culture	4
CLTR 1240	Latin American Film	4
CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 4508	Cuban History through Film—International Study	4
ENTR 3316	Microfinance and Economic Development in Latin America	4
ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
ENTR 3326	Sustainability in the Latin American Business Environment	4
ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1187	Introduction to Latin American History	4

HIST 1260	Modern Latin America	4
LACS 1220	Latino, Latin American, and Caribbean Studies	4
LITR 1260	Caribbean Literature and Culture	4
LITR 4655	Latin American Literature	4
POLS 3475	Government and Politics in Latin America	4

Middle East

INTL 1160	Middle East Studies	4
INTL 2100	Modern Israel	4
INTL 2200	America and the Middle East	4
INTL 2360	Human Rights in the Middle East	4
INTL 2400	Politics of Islam and Gender	4
INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
CLTR 1502	Introduction to Arabic Culture	4
ECON 1292	Economic History of the Middle East	4
HIST 1185	Introduction to Middle Eastern History	4
HIST 1290	Modern Middle East	4
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 4945	North African History Abroad	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4

Russia

HIST 1285	Introduction to Russian Civilization	4
HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215 or INTL 1215	Society and Culture in Russia	4

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.

Breadth Requirements for Economics

Code	Title	Hours
Calculus		
MATH 1231	Calculus for Business and Economics	4

Computer Science

CS 1100	Computer Science and Its Applications	4
---------	---------------------------------------	---

Economics Requirements

Code	Title	Hours
Required Economics Courses		
Grades in the following 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 3520	History of Economic Thought	4

Economics Electives

Complete three of the following courses with a minimum of one numbered 3000 or above. Courses used to satisfy international affairs requirements may not be used as economics electives:

Code	Title	Hours
ECON 1230	Healthcare and Medical Economics	
ECON 1290	History of the Global Economy	
ECON 1292	Economic History of the Middle East	
ECON 1293	European Economic History	
ECON 3404	International Food Economics and Policy	
ECON 3405	A Critique of Capitalism	
ECON 3406	Critical Perspectives on Economics	
ECON 3415	Poverty and Income	
ECON 3422	Economics of Transportation	
ECON 3423	Environmental Economics	
ECON 3560	Applied Econometrics	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	
ECON 4650	Economic Growth and Applications	

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

International Affairs and Religious 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

International Affairs Requirements

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: ¹		6-8
INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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	
ANTH 3415	Anthropology of Travel and Tourism	
COMM 2303	Global and Intercultural Communication	

MSCR 2325	Global Media
COMM 5240	Global and Intercultural Media
CLTR 1515	Comparative Analysis of the Lusophone World and Culture
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 1110	Introduction to World History
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
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2317	Comparative Urban Histories
HIST 2398	Radicals, Terrorists, and Insurgents
HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HUSV 4920	International Human Services
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 1127	Introduction to World Music
MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace
PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

International Experiential Learning

Complete at least one "international semester" via study abroad, international internship, international co-op, or two approved short-term programs abroad.

¹ Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. International Relations (POLS 1160) may not be used as a global dynamics course. See department for additional courses.

Regional Analysis Requirement

Complete two of the following courses, 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:

Code	Title	Hours
Africa		
AFRS 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4
ANTH 4510	Anthropology of Africa	4
or INTL 4510	Anthropology of Africa	
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4

HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4
Asia		
ANTH 4350	Ethnography of Southeast Asia	4
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4
HIST 1189	Introduction to South Asian History	4
HIST 1252	Japanese Literature and Culture	4
HIST 1253	History of Vietnam Wars	4
HIST 1254	Mao's China and After	4
HIST 1500	Modern Chinese History and Culture	4
HIST 2351	Modern Japan	4
HIST 2352	Dictators and Democracy in Japan and Korea	4
HIST 3452	Global Chinese Migration	4
HIST 4942	East Asian Cultural History Abroad	4
POLS 3485	China: Governance and Foreign Policy	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4
PHIL 1290	Chinese Philosophy and Religion	4
PHIL 2394	Chinese Buddhism	4
PHIL 2395	Japanese Buddhism	4
PHIL 4545	Religion and Politics in South Asia	4
Europe		
CLTR 1501	Introduction to French Culture	4
CLTR 1503	Introduction to Italian Culture	4
CLTR 1504	Introduction to Spanish Culture	4
CLTR 2280	French Film and World War II: The German Occupation of France	4
ECON 1293	European Economic History	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1270	Ancient Greece	4
HIST 1271	Ancient Rome	4
HIST 2280	Hitler, Germany, and the Holocaust	4
HIST 2371	Europe 1870–1921	4
HIST 2372	Gender and Society in Modern Europe	4
HIST 2376	The British Empire	4
HIST 4946	Independent Field Research Abroad: Central Europe	4
POLS 3435	Politics and Governance of Europe and the European Union	4
POLS 4917	Model European Union	4
SOCL 4535	European Union: Social and Political	4
Latin America		
AFAM 2301	Foundations of Black Culture 2	4
AFAM 2345	The Black Experience in the Caribbean	4

AFAM 4507	Afro-Cuban Culture—International Study	4
ANTH 4500	Latin American Society and Development	4
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	4
CLTR 1508	Cuban History and Culture through Film	4
CLTR 1509	An Introduction to Afro-Cuban Culture	4
CLTR 1240	Latin American Film	4
CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 4508	Cuban History through Film—International Study	4
ENTR 3316	Microfinance and Economic Development in Latin America	4
ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
ENTR 3326	Sustainability in the Latin American Business Environment	4
ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1187	Introduction to Latin American History	4
HIST 1260	Modern Latin America	4
LACS 1220	Latino, Latin American, and Caribbean Studies	4
LITR 1260	Caribbean Literature and Culture	4
LITR 4655	Latin American Literature	4
POLS 3475	Government and Politics in Latin America	4
Middle East		
INTL 1160	Middle East Studies	4
INTL 2100	Modern Israel	4
INTL 2200	America and the Middle East	4
INTL 2360	Human Rights in the Middle East	4
INTL 2400	Politics of Islam and Gender	4
INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
CLTR 1502	Introduction to Arabic Culture	4
ECON 1292	Economic History of the Middle East	4
HIST 1185	Introduction to Middle Eastern History	4
HIST 1290	Modern Middle East	4
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 4945	North African History Abroad	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4
Russia		
HIST 1285	Introduction to Russian Civilization	4

HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215	Society and Culture in Russia	4
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.

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 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 2300	Mysticism	
PHIL 4390	Cults and Sects	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 2315	Adam and Eve and Their Interpreters	
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 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 2314	Biblical Prophets and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 4390	Cults and Sects	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 1445	Philosophy of Religion	
PHIL 2327	Medieval Western Philosophy	
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 2398	Religion and Culture in Indian Cinema
PHIL 4545	Religion and Politics in South Asia
PHIL 2395	Japanese Buddhism
PHIL 2394	Chinese Buddhism

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 1285	Jewish Religion and Culture
PHIL 2316	Interpreting the Bible
PHIL 4390	Cults and Sects
PHIL 1271	Sex in Judaism, Christianity, and Islam
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 courses, 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 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 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 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/Religious Studies Combined-Major Credit Integrative Requirement

Code	Title	Hours
Capstone		
INTL 4700	Senior Capstone Seminar in International Affairs	4

International Affairs/Religious Studies Combined-Major 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
INTL 1000	1 Elective	4 Vacation	0 Vacation	0
INTL 1101	4 Foreign language course	4		
ENGW 1111	4 ECON 1115	4		

Foreign language course	4				
	13	12	0	0	
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
POLS 1160	4	INAF global dynamics course	4	Vacation	0
				Vacation	0
Elective	4	Elective	4		
Foreign language course	4	Foreign language course	4		
	12	12	0	0	
Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
INAF global dynamics course	4	ENGW 3315	4	Vacation	0
				Vacation	0
INAF regional analysis course	4	INAF regional analysis course	4		
Religious studies elective	4	Elective	4		
Elective	4				
	16	12	0	0	
Year 4					
Fall	Hours	Spring	Hours		
INTL 3400	4	INTL 4700	4		
Religious studies elective	4	Upper division elective	4		
Elective	4	Religious studies elective	4		
	12	12			

Total Hours: 101

Languages, Literatures, and Cultures 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. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Modern Language Requirements

Code	Title	Hours
------	-------	-------

Language Requirements

Complete three courses in the language of your major:	12
-------------------------------------------------------	----

French

FRNH 2101	Intermediate French 1
FRNH 2102	Intermediate French 2
FRNH 3101	Advanced French 1

Spanish

SPNS 2101	Intermediate Spanish 1
SPNS 2102	Intermediate Spanish 2
SPNS 3101	Advanced Spanish 1

Culture

CLTR 1120	Introduction to Languages, Literature, and Culture	4
-----------	----------------------------------------------------	---

Literature

Complete one of the following courses in the language of your major:	4
----------------------------------------------------------------------	---

LITR 4550	From Knights to Revolution
or LITR 4551	Modern French and Francophone Literature
LITR 4560	Masterpieces of Spanish Literature: Eighteenth–Twentieth Century
LITR 4561	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century

Advanced Language

Complete two of the following courses in the appropriate language while on study abroad:	8
------------------------------------------------------------------------------------------	---

FRNH 2101 to FRNH 5999	
LITR 4550	From Knights to Revolution
LITR 4551	Modern French and Francophone Literature
LITR 4555	French Poetry
LITR 4850	The Splendid Century
LITR 4860	Age of Enlightenment
LITR 4870	Romantic Heritage
LANG 4670	Topics in French
SPNS 2101 to SPNS 5999	
LANG 4970	Junior/Senior Honors Project 1
LANG 4971	Junior/Senior Honors Project 2
LITR 4560	Masterpieces of Spanish Literature: Eighteenth–Twentieth Century
LITR 4565	Spanish Golden Age
LITR 4561	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century
LITR 4655	Latin American Literature

Language Electives

Complete three of the following courses in the language of your major with course numbers 2990 or above:	12
----------------------------------------------------------------------------------------------------------	----

FRNH 2990 to FRNH 4999	
LANG 3438	Structure of French
LANG 4670	Topics in French

LITR 4550	From Knights to Revolution
LITR 4551	Modern French and Francophone Literature
LITR 4555	French Poetry
LITR 4850	The Splendid Century
LITR 4860	Age of Enlightenment
LITR 4870	Romantic Heritage
SPNS 2990 to SPNS 3990	
LITR 4560	Masterpieces of Spanish Literature: Eighteenth–Twentieth Century
LITR 4561	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century
LITR 4565	Spanish Golden Age
LITR 4655	Latin American Literature

International Affairs Requirements

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 used to fulfill major requirements may not be used to satisfy the global dynamics requirement. ¹		10-12
INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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	
ANTH 3415	Anthropology of Travel and Tourism	
COMM 2303	Global and Intercultural Communication	
MSCR 2325	Global Media	

COMM 5240	Global and Intercultural Media
CLTR 1515	Comparative Analysis of the Lusophone World and Culture
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 1110	Introduction to World History
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
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2317	Comparative Urban Histories
HIST 2398	Radicals, Terrorists, and Insurgents
HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HUSV 4920	International Human Services
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 1127	Introduction to World Music
MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace
PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security

POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

¹ International Conflict and Negotiation (INTL 3400) is not permitted to count in the Global Dynamics area for the Languages, Literatures & Cultures and International Affairs, BA as it is required in other areas of the major.

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 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4
ANTH 4510	Anthropology of Africa	4
or INTL 4510	Anthropology of Africa	
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4
HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4
Asia		

ANTH 4350	Ethnography of Southeast Asia	4
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4
HIST 1189	Introduction to South Asian History	4
HIST 1252	Japanese Literature and Culture	4
HIST 1253	History of Vietnam Wars	4
HIST 1254	Mao's China and After	4
HIST 1500	Modern Chinese History and Culture	4
HIST 2351	Modern Japan	4
HIST 2352	Dictators and Democracy in Japan and Korea	4
HIST 3452	Global Chinese Migration	4
HIST 4942	East Asian Cultural History Abroad	4
POLS 3485	China: Governance and Foreign Policy	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4
PHIL 1290	Chinese Philosophy and Religion	4
PHIL 2394	Chinese Buddhism	4
PHIL 2395	Japanese Buddhism	4
PHIL 4545	Religion and Politics in South Asia	4

Europe

CLTR 1501	Introduction to French Culture	4
CLTR 1503	Introduction to Italian Culture	4
CLTR 1504	Introduction to Spanish Culture	4
CLTR 2280	French Film and World War II: The German Occupation of France	4
ECON 1293	European Economic History	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1270	Ancient Greece	4
HIST 1271	Ancient Rome	4
HIST 2280	Hitler, Germany, and the Holocaust	4
HIST 2371	Europe 1870–1921	4
HIST 2372	Gender and Society in Modern Europe	4
HIST 2376	The British Empire	4
HIST 4946	Independent Field Research Abroad: Central Europe	4
POLS 3435	Politics and Governance of Europe and the European Union	4
POLS 4917	Model European Union	4
SOCL 4535	European Union: Social and Political	4
Latin America		
AFAM 2301	Foundations of Black Culture 2	4
AFAM 2345	The Black Experience in the Caribbean	4
AFAM 4507	Afro-Cuban Culture—International Study	4
ANTH 4500	Latin American Society and Development	4
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	4

CLTR 1508	Cuban History and Culture through Film	4
CLTR 1509	An Introduction to Afro-Cuban Culture	4
CLTR 1240	Latin American Film	4
CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 4508	Cuban History through Film—International Study	4
ENTR 3316	Microfinance and Economic Development in Latin America	4
ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
ENTR 3326	Sustainability in the Latin American Business Environment	4
ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1187	Introduction to Latin American History	4
HIST 1260	Modern Latin America	4
LACS 1220	Latino, Latin American, and Caribbean Studies	4
LITR 1260	Caribbean Literature and Culture	4
LITR 4655	Latin American Literature	4
POLS 3475	Government and Politics in Latin America	4

Middle East

INTL 1160	Middle East Studies	4
INTL 2100	Modern Israel	4
INTL 2200	America and the Middle East	4
INTL 2360	Human Rights in the Middle East	4
INTL 2400	Politics of Islam and Gender	4
INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
CLTR 1502	Introduction to Arabic Culture	4
ECON 1292	Economic History of the Middle East	4
HIST 1185	Introduction to Middle Eastern History	4
HIST 1290	Modern Middle East	4
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 4945	North African History Abroad	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4

Russia

HIST 1285	Introduction to Russian Civilization	4
HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4

POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215	Society and Culture in Russia	4
or INTL 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

Experiential Learning Requirement

Code	Title	Hours
Study Abroad/Experiential Learning		
Complete at least one semester via study abroad.		

Languages, Literatures, and Cultures and International Affairs Combined-Major Credit/GPA Requirements

Complete 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	FRNH 2101 or SPNS 2102	4				
FRNH 2101 or 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	French/Spanish elective 3000-5000	4				
FRNH 3101 or SPNS 3101	4	LITR 4550, 4551, 4560, or 4561	4				
	16		16		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				
		French/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
		French/Spanish elective 3000-5000	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 1215	4	Vacation	0	Vacation	0
ENGW 1111	4	ECON 1115 or 1116	4				
INTL 1101	4	Elective	4				
CLTR 1120	4	FRNH 2101 or SPNS 2102	4				
FRNH 2101 or SPNS 2101	4						
		17	16	0	0		

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
NUpath course or elective	4	Co-op	0	Co-op	0	INTL elective	4
LITR 4550, 4551, 4560, or 4561	4					Elective	4

FRNH 3101 or SPNS 3101	4				
French/Spanish elective 3000-5000	4				
	16	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						
French/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
French/Spanish elective 3000-5000	4	LITR 3500	4
	16	16	

Total Hours: 129

Political Science 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 2400	Quantitative Techniques	4
Political Theory		
Complete one of the following:		4
POLS 2326	Premodern Political Thought	
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. 729).

Code	Title	Hours
Political Science Electives		
Complete four Political Science courses at or above POLS 2300		16

- Concentration in Campaigns and Elections
- Concentration in Comparative Politics
- Concentration in Identity, Culture and Politics
- Concentration in International Relations and Diplomacy
- Concentration in Security Studies

International Affairs Major Requirements

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, one of which must be numbered 2000 or above: ¹		6-8
INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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	
ANTH 3415	Anthropology of Travel and Tourism	
COMM 2303	Global and Intercultural Communication	
MSCR 2325	Global Media	
COMM 5240	Global and Intercultural Media	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture	
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 1110	Introduction to World History	
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	
HIST 2312	Global Migration	
HIST 2315	Approaches to World History	
HIST 2317	Comparative Urban Histories	
HIST 2398	Radicals, Terrorists, and Insurgents	
HIST 3412	Global Environmental History	
HIST 3452	Global Chinese Migration	
HUSV 4920	International Human Services	
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 1127	Introduction to World Music
MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace
PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

¹ Comparative Politics (POLS 1155) and International Relations (POLS 1160) are not permitted to count in the Global Dynamics area for the Political Science and International Affairs, BA as they are required in other areas of the major.

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 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4
ANTH 4510	Anthropology of Africa	4
or INTL 4510	Anthropology of Africa	
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4
HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4
Asia		
ANTH 4350	Ethnography of Southeast Asia	4
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4
HIST 1189	Introduction to South Asian History	4
HIST 1252	Japanese Literature and Culture	4
HIST 1253	History of Vietnam Wars	4
HIST 1254	Mao's China and After	4
HIST 1500	Modern Chinese History and Culture	4
HIST 2351	Modern Japan	4
HIST 2352	Dictators and Democracy in Japan and Korea	4
HIST 3452	Global Chinese Migration	4
HIST 4942	East Asian Cultural History Abroad	4
POLS 3485	China: Governance and Foreign Policy	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4
PHIL 1290	Chinese Philosophy and Religion	4
PHIL 2394	Chinese Buddhism	4
PHIL 2395	Japanese Buddhism	4
PHIL 4545	Religion and Politics in South Asia	4
Europe		
CLTR 1501	Introduction to French Culture	4
CLTR 1503	Introduction to Italian Culture	4

CLTR 1504	Introduction to Spanish Culture	4
CLTR 2280	French Film and World War II: The German Occupation of France	4
ECON 1293	European Economic History	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1270	Ancient Greece	4
HIST 1271	Ancient Rome	4
HIST 2280	Hitler, Germany, and the Holocaust	4
HIST 2371	Europe 1870–1921	4
HIST 2372	Gender and Society in Modern Europe	4
HIST 2376	The British Empire	4
HIST 4946	Independent Field Research Abroad: Central Europe	4
POLS 3435	Politics and Governance of Europe and the European Union	4
POLS 4917	Model European Union	4
SOCL 4535	European Union: Social and Political	4
Latin America		
AFAM 2301	Foundations of Black Culture 2	4
AFAM 2345	The Black Experience in the Caribbean	4
AFAM 4507	Afro-Cuban Culture—International Study	4
ANTH 4500	Latin American Society and Development	4
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	4
CLTR 1508	Cuban History and Culture through Film	4
CLTR 1509	An Introduction to Afro-Cuban Culture	4
CLTR 1240	Latin American Film	4
CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 4508	Cuban History through Film—International Study	4
ENTR 3316	Microfinance and Economic Development in Latin America	4
ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
ENTR 3326	Sustainability in the Latin American Business Environment	4
ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1187	Introduction to Latin American History	4
HIST 1260	Modern Latin America	4
LACS 1220	Latino, Latin American, and Caribbean Studies	4
LITR 1260	Caribbean Literature and Culture	4
LITR 4655	Latin American Literature	4
POLS 3475	Government and Politics in Latin America	4
Middle East		
INTL 1160	Middle East Studies	4
INTL 2100	Modern Israel	4
INTL 2200	America and the Middle East	4
INTL 2360	Human Rights in the Middle East	4
INTL 2400	Politics of Islam and Gender	4
INTL 3250	Democracy and Development in North Africa and the Mediterranean	4

CLTR 1502	Introduction to Arabic Culture	4
ECON 1292	Economic History of the Middle East	4
HIST 1185	Introduction to Middle Eastern History	4
HIST 1290	Modern Middle East	4
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 4945	North African History Abroad	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4
Russia		
HIST 1285	Introduction to Russian Civilization	4
HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215	Society and Culture in Russia	4
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.

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	

International Experiential Learning

Complete at least one “international semester” (one full semester) via study abroad, international internship, or international co-op, or complete two summer half semesters via study abroad.

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
------	-------	-------

Theoretical Requirement

Complete one of the following: 4

POLS 2370	Religion and Politics	
POLS 3415	Ethnic Political Violence	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
POLS 3490	Democracy in Comparative Politics	

Regional Requirements

Complete two of the following: 8

POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
POLS 3450	Government and Politics in Russia	
POLS 3460	Contemporary Government and Politics in Africa	
POLS 3465	Government and Politics in the Middle East	
POLS 3475	Government and Politics in Latin America	
POLS 3480	Government and Politics in Japan	
POLS 3485	China: Governance and Foreign Policy	

Experiential/Practicum Requirement

Complete one of the following: 4

POLS 4915	Model Arab League	
POLS 4917	Model European Union	
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 3415	Ethnic Political Violence	4
-----------	---------------------------	---

or POLS 3418	Nationalism	
--------------	-------------	--

Electives

Complete three of the following: 12

POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
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 4917	Model European Union	
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 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
------	-------	-------

Complete four of the following: 16

POLS 3408	International Security	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	
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 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 course	4 Foreign language 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 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 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 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

International Affairs, Minor

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

Required Course

INTL 1101	Globalization and International Affairs	4
-----------	-----------------------------------------	---

Regional Analysis Elective Courses

Complete two of the following courses. 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:

Africa		
AFRS 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4
ANTH 4510	Anthropology of Africa	4
or INTL 4510	Anthropology of Africa	
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4
HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4
Asia		
ANTH 4350	Ethnography of Southeast Asia	4
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4
HIST 1189	Introduction to South Asian History	4
HIST 1252	Japanese Literature and Culture	4
HIST 1253	History of Vietnam Wars	4
HIST 1254	Mao's China and After	4
HIST 1500	Modern Chinese History and Culture	4
HIST 2351	Modern Japan	4
HIST 2352	Dictators and Democracy in Japan and Korea	4
HIST 3452	Global Chinese Migration	4
HIST 4942	East Asian Cultural History Abroad	4
POLS 3485	China: Governance and Foreign Policy	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4
PHIL 1290	Chinese Philosophy and Religion	4
PHIL 2394	Chinese Buddhism	4
PHIL 2395	Japanese Buddhism	4
PHIL 4545	Religion and Politics in South Asia	4
Europe		
CLTR 1501	Introduction to French Culture	4
CLTR 1503	Introduction to Italian Culture	4
CLTR 1504	Introduction to Spanish Culture	4
CLTR 2280	French Film and World War II: The German Occupation of France	4
ECON 1293	European Economic History	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1270	Ancient Greece	4
HIST 1271	Ancient Rome	4
HIST 2280	Hitler, Germany, and the Holocaust	4
HIST 2371	Europe 1870–1921	4
HIST 2372	Gender and Society in Modern Europe	4
HIST 2376	The British Empire	4
HIST 4946	Independent Field Research Abroad: Central Europe	4
POLS 3435	Politics and Governance of Europe and the European Union	4
POLS 4917	Model European Union	4
SOCL 4535	European Union: Social and Political	4
Latin America		
AFAM 2301	Foundations of Black Culture 2	4
AFAM 2345	The Black Experience in the Caribbean	4
AFAM 4507	Afro-Cuban Culture—International Study	4
ANTH 4500	Latin American Society and Development	4
or INTL 4500	Latin American Society and Development	
CLTR 1505	Introduction to Latin American Culture	4
CLTR 1508	Cuban History and Culture through Film	4
CLTR 1509	An Introduction to Afro-Cuban Culture	4
CLTR 1240	Latin American Film	4
CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 4508	Cuban History through Film—International Study	4

ENTR 3316	Microfinance and Economic Development in Latin America	4
ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
ENTR 3326	Sustainability in the Latin American Business Environment	4
ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1187	Introduction to Latin American History	4
HIST 1260	Modern Latin America	4
LACS 1220	Latino, Latin American, and Caribbean Studies	4
LITR 1260	Caribbean Literature and Culture	4
LITR 4655	Latin American Literature	4
POLS 3475	Government and Politics in Latin America	4

Middle East

INTL 1160	Middle East Studies	4
INTL 2100	Modern Israel	4
INTL 2200	America and the Middle East	4
INTL 2360	Human Rights in the Middle East	4
INTL 2400	Politics of Islam and Gender	4
INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
CLTR 1502	Introduction to Arabic Culture	4
ECON 1292	Economic History of the Middle East	4
HIST 1185	Introduction to Middle Eastern History	4
HIST 1290	Modern Middle East	4
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 4945	North African History Abroad	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4

Russia

HIST 1285	Introduction to Russian Civilization	4
HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215 or INTL 1215	Society and Culture in Russia	4

Global Dynamics Elective Courses

Complete two of the following:

8

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 3460	Transnational Activism in Global Civil Society
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective
INTL 5200	Political Economy: Interdisciplinary Perspectives
AFAM 2301	Foundations of Black Culture 2
AFAM 2345	The Black Experience in the Caribbean
AFAM 2600	Contemporary Issues: Race, Science, and Technology
AFAM 2639	Globalism, Racism, and Human Rights
AFRS 1185	Gender in the African Diaspora
or INTL 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 2305	Global Markets and Local Culture
ANTH 2315	Religion and Modernity
ANTH 2350	Urban Anthropology
ANTH 3415	Anthropology of Travel and Tourism
COMM 2303	Global and Intercultural Communication
MSCR 2325	Global Media
COMM 5240	Global and Intercultural Media
CLTR 1515	Comparative Analysis of the Lusophone World and Culture
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 1110	Introduction to World History
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
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2317	Comparative Urban Histories
HIST 2398	Radicals, Terrorists, and Insurgents

HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HUSV 4920	International Human Services
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 1127	Introduction to World Music
MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace
PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

GPA Requirement

2.000 GPA required in the minor.

Middle East Studies, Minor

The minor in Middle East studies is an interdisciplinary program, drawing on courses in international affairs; political science; history; philosophy and religion; economics; anthropology; and languages, literatures, and cultures. 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 programs and the Dialogue of Civilizations programs (faculty-led summer programs) in Egypt, Morocco, Tunisia, Jordan, Turkey, Israel and Palestine, and other approved programs in the region.

Program Requirements

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

Required Courses

HIST 1185	Introduction to Middle Eastern History	4
or HIST 1290	Modern Middle East	
POLS 3465	Government and Politics in the Middle East	4
or POLS 3470	Arab-Israeli Conflict	
INTL 1160	Middle East Studies	4

Elective Courses

Complete two of the following 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:

ARAB 1101	Elementary Arabic 1	4
ARAB 1102	Elementary Arabic 2	4
ARAB 1301	Elementary Arabic Immersion 1	4
ARAB 1302	Elementary Arabic Immersion 2	4
ARAB 2101	Intermediate Arabic 1	4
ARAB 2102	Intermediate Arabic 2	4
ARAB 2301	Intermediate Arabic Immersion 1	4
ARAB 2302	Intermediate Arabic Immersion 2	4
ARAB 3101	Advanced Arabic 1	4
ARAB 3102	Advanced Arabic 2	4
ARAB 3301	Advanced Arabic Immersion 1	4
ARAB 3302	Advanced Arabic Immersion 2	4
CLTR 1502	Introduction to Arabic Culture	4
ECON 1292	Economic History of the Middle East	4
HBRW 1101	Elementary Hebrew 1	4
HBRW 1102	Elementary Hebrew 2	4
HBRW 2101	Intermediate Hebrew 1	4
HBRW 2102	Intermediate Hebrew 2	4
HBRW 3101	Advanced Hebrew 1	4
HBRW 3102	Advanced Hebrew 2	4
HIST 1185	Introduction to Middle Eastern History	4

HIST 1290	Modern Middle East	4
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 4945	North African History Abroad	4
INTL 2100	Modern Israel	4
INTL 2200	America and the Middle East	4
INTL 2400	Politics of Islam and Gender	4
INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
INTL 2360	Human Rights in the Middle East	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4

GPA Requirement

2.000 GPA required in the minor

Jewish Studies

Website (<http://www.northeastern.edu/jewishstudies>)

Lori H. Lefkowitz, PhD

Ruderman Professor and Director, Jewish Studies Program

409 Nightingale Hall

617.373.8437

617.373.2509 (fax)

Jennifer I. Sartori, Academic Specialist and Associate Director,
j.sartori@northeastern.edu

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 pre-approved 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.

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. A partnership between Northeastern University and Hebrew College allows for tuition-free cross-registration.

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. 28)."

Preapproved 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. 30)." For template program requirements, visit the myNEU 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. 734)

Minor

- Jewish Studies (p. 738)

Jewish Studies and Religion, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Jewish Studies Requirements

Code	Title	Hours
Required Course		
PHIL 1285	Jewish Religion and Culture	4
or JWSS 1285	Jewish Religion and Culture	

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

JWSS 2500	Zionism and the Challenges of Jewish Statehood	
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	
or JWSS 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	
PHIL 3385	History of Jewish Rationalism	
PHIL 4605	Advanced Seminar: Spinoza	

Jewish History

Complete two of the following: 8

HIST 1282	The Holocaust and Comparative Genocide	
HIST 1292	Jerusalem: Space and Image	
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 2285	America and the Holocaust	
or JWSS 2285	America and the Holocaust	
HIST 2300	Race, Religion, Ethnicity: The Example of Jewishness	
or JWSS 2300	Race, Religion, Ethnicity: The Example of Jewishness	
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 1575	Jewish Film and Fiction	
or JWSS 1575	Jewish Film and Fiction	

CLTR 3450	Israeli and Palestinian Film	
ENGL 2610	Contemporary Israeli Literature and Art Abroad	
or JWSS 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	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
JWSS 2259	Sex and Gender in the Jewish Experience	
or WMNS 2259	Sex and Gender in the Jewish Experience	
JWSS 2269	Jews and American Popular Culture	
MUSC 1132	Music of the Jewish People	

Jewish Studies Electives

Complete three of the following: 12

CLTR 1575	Jewish Film and Fiction	
or JWSS 1575	Jewish Film and Fiction	
CLTR 3450	Israeli and Palestinian Film	
ENGL 2610	Contemporary Israeli Literature and Art Abroad	
or JWSS 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	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
HIST 1282	The Holocaust and Comparative Genocide	
HIST 1292	Jerusalem: Space and Image	
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 2285	America and the Holocaust	
or JWSS 2285	America and the Holocaust	
HIST 2300	Race, Religion, Ethnicity: The Example of Jewishness	
or JWSS 2300	Race, Religion, Ethnicity: The Example of Jewishness	
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 2269	Jews and American Popular Culture	
JWSS 2500	Zionism and the Challenges of Jewish Statehood	

JWSS 3447	Topics in Jewish Studies
JWSS 4992	Directed Study
MUSC 1132	Music of the Jewish People
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
or JWSS 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 3385	History of Jewish Rationalism
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4605	Advanced Seminar: Spinoza
POLS 2370	Religion and Politics
POLS 3465	Government and Politics in the Middle East
POLS 3470	Arab-Israeli Conflict
SOCL 1240	Sociology of Prejudice and Violence
SOCL 1241	Sociology of Violence
SOCL 2270	Race and Ethnic Relations
WMNS 2259	Sex and Gender in the Jewish Experience
or JWSS 2259	Sex and Gender in the Jewish Experience

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 2300	Mysticism	

PHIL 2327	Medieval Western Philosophy
Philosophy or Religion Seminar	
Complete one of the following: 4	
PHIL 4547	Seminar: Apocalypticism
PHIL 4605	Advanced Seminar: Spinoza
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4901	Topics in Philosophy Seminar
PHIL 4902	Great Philosophers Seminar
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 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 2327	Medieval Western Philosophy
PHIL 3385	History of Jewish Rationalism
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 4390	Cults and Sects
PHIL 4393	Asian Religions in the United States
PHIL 4395	Ramayana
AFRS 3410	Religion and Spirituality in the African Diaspora
PHIL 1445	Philosophy of Religion
PHIL 4545	Religion and Politics in South Asia
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4547	Seminar: Apocalypticism

PHIL 4605	Advanced Seminar: Spinoza
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4901	Topics in Philosophy Seminar
PHIL 4902	Great Philosophers Seminar
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 4991	Research
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
----------------------------------------------------------------------------------------------	---

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
ENGW 1111	4	HIST 1282	4	Vacation	0
Elective	4	Foreign language core course	4		
PHIL 1285 or JWSS 1285	4	Elective	4		
Foreign language core course	4	Elective	4		
		16			0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
PHIL 2314	4	HBRW 1102	4	Vacation	0
PHIL 1275	4	Religious studies elective	4		
HBRW 1101	4	Foreign language core course	4		

Religious studies elective	4	Elective	4		
		16			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	

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	

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
ENGW 1111	4	PHIL 1150	4	Vacation	0
Elective	4	HIST 1282	4		
PHIL 1285 or JWSS 1285	4	Elective	4		
Foreign language core course	4	Religious studies elective	4		
		16			0
Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
HBRW 1101	4	Co-op	0	Co-op	0
PHIL 1275	4				Elective
PHIL 2300	4				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

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

Required Courses

PHIL 1285	Jewish Religion and Culture	4
or JWSS 1285	Jewish Religion and Culture	
JWSS 4660	Jewish Studies Module	1

Elective Courses

Complete four courses from the following lists. Only two courses may be taken from the Jewish-studies-related course list: 16

Jewish Studies Courses

CLTR 1575	Jewish Film and Fiction
-----------	-------------------------

or JWSS 1575	Jewish Film and Fiction
--------------	-------------------------

CLTR 3450	Israeli and Palestinian Film
ENGL 2610	Contemporary Israeli Literature and Art Abroad
or JWSS 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	From Kafka to Kushner: Modern and Contemporary Jewish Literature
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
HBRW 1101	Elementary Hebrew 1
HBRW 1102	Elementary Hebrew 2
HBRW 2101	Intermediate Hebrew 1
HIST 1282	The Holocaust and Comparative Genocide
HIST 1292	Jerusalem: Space and Image
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 2285	America and the Holocaust
or JWSS 2285	America and the Holocaust
HIST 2300	Race, Religion, Ethnicity: The Example of Jewishness
or JWSS 2300	Race, Religion, Ethnicity: The Example of Jewishness
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 2269	Jews and American Popular Culture
JWSS 2500	Zionism and the Challenges of Jewish Statehood
JWSS 3447	Topics in Jewish Studies
JWSS 4660	Jewish Studies Module
JWSS 4992	Directed Study
MUSC 1132	Music of the Jewish People
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
or JWSS 2313	Exploring the Jewish Diaspora—From Mountain Jews to Crypto-Jews
PHIL 2315	Adam and Eve and Their Interpreters
PHIL 3385	History of Jewish Rationalism
PHIL 2322	Responses to the Holocaust
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 4605	Advanced Seminar: Spinoza

POLS 3470	Arab-Israeli Conflict
WMNS 2259	Sex and Gender in the Jewish Experience
or JWSS 2259	Sex and Gender in the Jewish Experience

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 1240	Sociology of Prejudice and Violence
SOCL 2270	Race and Ethnic Relations

GPA Requirement

2.000 GPA required in the minor

Languages, Literatures, and Cultures

Website (<http://www.northeastern.edu/lc>)

José Buscaglia-Salgado, PhD
Chair

201 Renaissance Park
617.373.2234
617.373.2298 (fax)

The study of languages can benefit all students, regardless of their majors. The multicultural world in which we live requires increased communication among varied and often divergent cultures. Learning a new language and its culture enables students to cross cultural barriers and to achieve a more cosmopolitan, open-minded, and sensitive view of the world.

The major seeks to ensure that students become as fluent as possible in a given language and introduces them to the relevant culture of that language. For this reason, the students take a number of language classes as well as literature, cinema, and general civilization courses. In addition, students are required to participate in study abroad and are urged to consider participating in international co-op, which prepares students to function on an everyday level in a foreign country.

The major is currently available in Spanish. It is possible to minor in Arabic, Chinese, French, Italian, Japanese, Portuguese, Russian, or Spanish.

A major in a language can form the basis for careers in teaching at the elementary, secondary, or college level; international business relations; high-tech fields; government service; journalism; library science; world affairs; travel; and community service, especially in Spanish-speaking areas.

Academic Progression Standards

Same as university-wide standards described under "Academic Status (p. 28)."

Programs**Bachelor of Arts (BA)**

- Spanish (p. 739)
- Languages, Literatures, and Cultures and International Affairs (p. 740)

Minors

- Arabic (p. 745)
- Chinese (p. 745)
- Film and International Culture (p. 746)
- French (p. 746)
- Italian (p. 746)
- Japanese (p. 747)
- Portuguese (p. 747)
- Russian (p. 748)
- Spanish (p. 748)

Spanish, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA Language Requirements (p. 37).

Spanish Major Requirements**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 3710	Representing Latin American Cities	

CLTR 3725	Representing Violence and Human Rights in Latin America
-----------	---------------------------------------------------------

Literature

Complete three of the following: 12

CLTR 3720	Literature, Arts, and Poverty in Latin America
-----------	------------------------------------------------

CLTR 3715	New Narratives: Latin America after 1989
-----------	------------------------------------------

LITR 3502	Cervantes and His Times
-----------	-------------------------

LITR 4561	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century
-----------	-----------------------------------------------------------------

LITR 4560	Masterpieces of Spanish Literature: Eighteenth–Twentieth 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

Languages, Literatures, and Cultures 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Modern Language Requirements

Code	Title	Hours
Language Requirements		
Complete three courses in the language of your major:		12

French

FRNH 2101	Intermediate French 1	
FRNH 2102	Intermediate French 2	
FRNH 3101	Advanced French 1	

Spanish

SPNS 2101	Intermediate Spanish 1	
SPNS 2102	Intermediate Spanish 2	
SPNS 3101	Advanced Spanish 1	

Culture

CLTR 1120	Introduction to Languages, Literature, and Culture	4
-----------	----------------------------------------------------	---

Literature

Complete one of the following courses in the language of your major: 4

LITR 4550	From Knights to Revolution	
or LITR 4551	Modern French and Francophone Literature	
LITR 4560	Masterpieces of Spanish Literature: Eighteenth–Twentieth Century	
LITR 4561	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century	

Advanced Language

Complete two of the following courses in the appropriate language while on study abroad: 8

FRNH 2101 to FRNH 5999		
LITR 4550	From Knights to Revolution	
LITR 4551	Modern French and Francophone Literature	
LITR 4555	French Poetry	
LITR 4850	The Splendid Century	
LITR 4860	Age of Enlightenment	
LITR 4870	Romantic Heritage	
LANG 4670	Topics in French	
SPNS 2101 to SPNS 5999		
LANG 4970	Junior/Senior Honors Project 1	
LANG 4971	Junior/Senior Honors Project 2	
LITR 4560	Masterpieces of Spanish Literature: Eighteenth–Twentieth Century	
LITR 4565	Spanish Golden Age	
LITR 4561	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century	
LITR 4655	Latin American Literature	

Language Electives

Complete three of the following courses in the language of your major with course numbers 2990 or above: 12

FRNH 2990 to FRNH 4999		
LANG 3438	Structure of French	
LANG 4670	Topics in French	
LITR 4550	From Knights to Revolution	
LITR 4551	Modern French and Francophone Literature	
LITR 4555	French Poetry	
LITR 4850	The Splendid Century	
LITR 4860	Age of Enlightenment	
LITR 4870	Romantic Heritage	
SPNS 2990 to SPNS 3990		

LITR 4560	Masterpieces of Spanish Literature: Eighteenth–Twentieth Century	
LITR 4561	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century	
LITR 4565	Spanish Golden Age	
LITR 4655	Latin American Literature	

International Affairs Requirements

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 used to fulfill major requirements may not be used to satisfy the global dynamics requirement. ¹		10-12
INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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	
ANTH 3415	Anthropology of Travel and Tourism	
COMM 2303	Global and Intercultural Communication	
MSCR 2325	Global Media	
COMM 5240	Global and Intercultural Media	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture	
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 1110	Introduction to World History
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
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2317	Comparative Urban Histories
HIST 2398	Radicals, Terrorists, and Insurgents
HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HUSV 4920	International Human Services
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 1127	Introduction to World Music
MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace
PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

¹ International Conflict and Negotiation (INTL 3400) is not permitted to count in the Global Dynamics area for the Languages, Literatures & Cultures and International Affairs, BA as it is required in other areas of the major.

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 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4
ANTH 4510	Anthropology of Africa	4
or INTL 4510	Anthropology of Africa	
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4
HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4
Asia		
ANTH 4350	Ethnography of Southeast Asia	4
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4

CLTR 2501	Chinese Film: Gender and Ethnicity	4	ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
HIST 1189	Introduction to South Asian History	4	ENTR 3326	Sustainability in the Latin American Business Environment	4
HIST 1252	Japanese Literature and Culture	4	ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1253	History of Vietnam Wars	4	HIST 1187	Introduction to Latin American History	4
HIST 1254	Mao's China and After	4	HIST 1260	Modern Latin America	4
HIST 1500	Modern Chinese History and Culture	4	LACS 1220	Latino, Latin American, and Caribbean Studies	4
HIST 2351	Modern Japan	4	LITR 1260	Caribbean Literature and Culture	4
HIST 2352	Dictators and Democracy in Japan and Korea	4	LITR 4655	Latin American Literature	4
HIST 3452	Global Chinese Migration	4	POLS 3475	Government and Politics in Latin America	4
HIST 4942	East Asian Cultural History Abroad	4	Middle East		
POLS 3485	China: Governance and Foreign Policy	4	INTL 1160	Middle East Studies	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4	INTL 2100	Modern Israel	4
PHIL 1290	Chinese Philosophy and Religion	4	INTL 2200	America and the Middle East	4
PHIL 2394	Chinese Buddhism	4	INTL 2360	Human Rights in the Middle East	4
PHIL 2395	Japanese Buddhism	4	INTL 2400	Politics of Islam and Gender	4
PHIL 4545	Religion and Politics in South Asia	4	INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
Europe			CLTR 1502	Introduction to Arabic Culture	4
CLTR 1501	Introduction to French Culture	4	ECON 1292	Economic History of the Middle East	4
CLTR 1503	Introduction to Italian Culture	4	HIST 1185	Introduction to Middle Eastern History	4
CLTR 1504	Introduction to Spanish Culture	4	HIST 1290	Modern Middle East	4
CLTR 2280	French Film and World War II: The German Occupation of France	4	HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
ECON 1293	European Economic History	4	HIST 4945	North African History Abroad	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4	JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
HIST 1270	Ancient Greece	4	POLS 3465	Government and Politics in the Middle East	4
HIST 1271	Ancient Rome	4	POLS 3470	Arab-Israeli Conflict	4
HIST 2280	Hitler, Germany, and the Holocaust	4	POLS 4915	Model Arab League	4
HIST 2371	Europe 1870–1921	4	PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
HIST 2372	Gender and Society in Modern Europe	4	PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
HIST 2376	The British Empire	4	PHIL 1285	Jewish Religion and Culture	4
HIST 4946	Independent Field Research Abroad: Central Europe	4	PHIL 1287	Modern Judaism	4
POLS 3435	Politics and Governance of Europe and the European Union	4	Russia		
POLS 4917	Model European Union	4	HIST 1285	Introduction to Russian Civilization	4
SOCL 4535	European Union: Social and Political	4	HIST 1286	History of the Soviet Union	4
Latin America			HIST 2386	History of Soviet Cinema	4
AFAM 2301	Foundations of Black Culture 2	4	HIST 3486	Commissars and Managers: Soviet Economic History	4
AFAM 2345	The Black Experience in the Caribbean	4	LITR 3503	Russian Literature in Translation	4
AFAM 4507	Afro-Cuban Culture—International Study	4	POLS 3450	Government and Politics in Russia	4
ANTH 4500	Latin American Society and Development	4	POLS 3455	Russian Foreign Policy	4
or INTL 4500	Latin American Society and Development		SOCL 1215	Society and Culture in Russia	4
CLTR 1505	Introduction to Latin American Culture	4	or INTL 1215	Society and Culture in Russia	
CLTR 1508	Cuban History and Culture through Film	4	Integrative Courses		
CLTR 1509	An Introduction to Afro-Cuban Culture	4	Code	Title	Hours
CLTR 1240	Latin American Film	4	Capstone		
CLTR 4507	Afro-Cuban Culture—International Study	4			
CLTR 4508	Cuban History through Film—International Study	4			
ENTR 3316	Microfinance and Economic Development in Latin America	4			

LITR 3500	International Perspectives	4
INTL 4700	Senior Capstone Seminar in International Affairs	4

Experiential Learning Requirement

Code	Title	Hours
Study Abroad/Experiential Learning		
Complete at least one semester via study abroad.		

Languages, Literatures, and Cultures and International Affairs Combined-Major Credit/GPA Requirements

Complete 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
INTL 1000	1	MATH 1215	4	Vacation	0
ENGW 1111	4	ECON 1115 or 1116	4		
INTL 1101	4	Elective	4		
CLTR 1120	4	FRNH 2101 or SPNS 2102	4		
FRNH 2101 or SPNS 2101	4				
		17	16		0

Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
INTL elective	4	INTL elective	4	Vacation	0
Elective	4	Elective	4		
Elective	4	French/Spanish elective 3000-5000	4		
FRNH 3101 or SPNS 3101	4	LITR 4550, 4551, 4560, or 4561	4		
		16	16		0

Year 3					
Fall	Hours	Spring	Hours	Summer 1	Hours
Co-op	0	INTL elective	4	INTL elective	4
		INTL elective	4	Upper division elective	4
		Advanced literature/cultural course	4		
		Advanced literature/cultural course	4		
		0	16		8

Year 4				
Fall	Hours	Spring	Hours	Summer 1
Co-op	0	ENGW 3315	4	Upper division elective
		INTL 3400	4	INTL elective
		Elective	4	
		French/Spanish elective 3000-5000	4	
		0	16	

Year 5		
Fall	Hours	Spring
Co-op	0	INTL 4700
		Upper division elective
		LITR 3500
		French/Spanish elective 3000-5000
		0

Total Hours: 129

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

Year 1					
Fall	Hours	Spring	Hours	Summer 1	Hours
INTL 1000	1	MATH 1215	4	Vacation	0
ENGW 1111	4	ECON 1115 or 1116	4		
INTL 1101	4	Elective	4		
CLTR 1120	4	FRNH 2101 or SPNS 2102	4		
FRNH 2101 or SPNS 2101	4				
		17	16		0

Year 2					
Fall	Hours	Spring	Hours	Summer 1	Hours
Elective	4	Co-op	0	Co-op	0
LITR 4550, 4551, 4560, or 4561	4			INTL elective	4
FRNH 3101 or SPNS 3101	4			Elective	4
French/Spanish elective 3000-5000	4				
		16	0		8

Year 3					
Fall	Hours	Spring	Hours	Summer 1	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

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			
French/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
French/Spanish elective 3000-5000	4 LITR 3500	4
	16	16

Total Hours: 129

Arabic, Minor

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

Required Culture Courses

CLTR 1120	Introduction to Languages, Literature, and Culture	4
CLTR 1502	Introduction to Arabic Culture	4

Required Language Courses

Students with prior language skills in Arabic are allowed to waive up to four ARAB language courses.

ARAB 1101 or ARAB 1301	Elementary Arabic 1 Elementary Arabic Immersion 1	4
ARAB 1102 or ARAB 1302	Elementary Arabic 2 Elementary Arabic Immersion 2	4
ARAB 2101 or ARAB 2301	Intermediate Arabic 1 Intermediate Arabic Immersion 1	4

ARAB 2102 or ARAB 2302	Intermediate Arabic 2 Intermediate Arabic Immersion 2	4
---------------------------	----------------------------------------------------------	---

Elective

Complete one of the following: 4

ARAB 3101 or ARAB 3301	Advanced Arabic 1 Advanced Arabic Immersion 1	
ARAB 3102 or ARAB 3302	Advanced Arabic 2 Advanced Arabic Immersion 2	
ARAB 3800	Special Topics in Arabic	
ARAB 4800	Special Topics in Arabic	
ARAB 4992	Directed Study	
ARAB 4993	Independent Study	
CLTR 4944	Cultural Engagement Abroad	
HIST 1185	Introduction to Middle Eastern History	
HIST 1290	Modern Middle East	
INTL 1160	Middle East Studies	
LITR 1150	Muslim Writers and the Qur'an (in English Translations)	

GPA Requirement

2.000 GPA required in the minor

Chinese, Minor

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

Required Courses

Complete two of the following: 8

ASNS 1150 or HIST 1150	East Asian Studies East Asian Studies	
CLTR 1120	Introduction to Languages, Literature, and Culture	
CLTR 1500 or HIST 1500	Modern Chinese History and Culture Modern Chinese History and Culture	
CLTR 4944	Cultural Engagement Abroad	

Required Language Courses

Students with prior language skills in Chinese are allowed to waive up to four CHNS language courses.

CHNS 1101 or CHNS 1301	Elementary Chinese 1 Elementary Chinese Immersion 1	4
CHNS 1102 or CHNS 1302	Elementary Chinese 2 Elementary Chinese Immersion 2	4
CHNS 2101 or CHNS 2301	Intermediate Chinese 1 Intermediate Chinese Immersion 1	4
CHNS 2102 or CHNS 2302	Intermediate Chinese 2 Intermediate Chinese Immersion 2	4

Elective

Complete one of the following: 4

CHNS 3101 or CHNS 3301	Advanced Chinese 1 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
CHNS 4993	Independent Study
CLTR 2501	Chinese Film: Gender and Ethnicity
CLTR 4944	Cultural Engagement Abroad
HIST 1256	Chinese Civilization in Her Eyes
or HIST 2308	Law, Justice, and Society in Modern China

GPA Requirement

2.000 GPA required in the minor

Film and International Cultures, Minor

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

CLTR 1120	Introduction to Languages, Literature, and Culture	4
CLTR 2001	World Cultures through Film	4

Film and Culture Study

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	Spanish Civil War on Film and Introduction to Spanish Culture
CLTR 1280 and CLTR 1501	French Film and Culture and Introduction to French Culture
CLTR 1508 and CLTR 1509	Cuban History and Culture through Film and An Introduction to Afro-Cuban Culture
CLTR 2501 and CLTR 1500	Chinese Film: Gender and Ethnicity 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.

Complete one of the following: 4

CLTR 1240	Latin American Film
CLTR 1260	Japanese Film
CLTR 1265	Spanish Civil War on Film
CLTR 1280	French Film and Culture
CLTR 1508	Cuban History and Culture through Film
CLTR 2504	Modern German Film and Literature

CLTR 2510	Brazilian Culture through Film
CLTR 2501	Chinese Film: Gender and Ethnicity
CLTR 3930	Topics in International Cinema
CLTR 3450	Israeli and Palestinian Film
CLTR 3500	French Culture and the Arts
CLTR 4508	Cuban History through Film— International Study

GPA Requirement

2.000 GPA required in the minor

French, Minor

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

Required Courses

FRNH 2102	Intermediate French 2	4
or FRNH 2302	Intermediate French Immersion 2	
FRNH 3101	Advanced French 1	4
or FRNH 3301	Advanced French Immersion 1	
CLTR 1501	Introduction to French Culture	4
CLTR 1280	French Film and Culture	4

Culture

CLTR 1120	Introduction to Languages, Literature, and Culture	4
-----------	----------------------------------------------------	---

Advanced Elective

Complete one of the following: 4

CLTR 3500	French Culture and the Arts
FRNH 3102	Advanced French 2
FRNH 3302	Advanced French Immersion 2
LITR 4550	From Knights to Revolution
LITR 4551	Modern French and Francophone Literature
LITR 4555	French Poetry
LITR 4850	The Splendid Century
LITR 4860	Age of Enlightenment
LITR 4870	Romantic Heritage
LANG 4670	Topics in French

GPA Requirement

2.000 GPA required in the minor

Italian, Minor

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

Required Culture Courses

CLTR 1120	Introduction to Languages, Literature, and Culture	4
CLTR 1503	Introduction to Italian Culture	4

Required Language Courses

Students with prior language skills in Italian are allowed to waive up to four ITLN language courses.

ITLN 1101	Elementary Italian 1	4
or ITLN 1301	Elementary Italian Immersion 1	
ITLN 1102	Elementary Italian 2	4
or ITLN 1302	Elementary Italian Immersion 2	
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	

Elective

Complete one of the following:

ITLN 3101	Advanced Italian 1
or ITLN 3301	Advanced Italian Immersion 1
ITLN 3102	Advanced Italian 2
or ITLN 3302	Advanced Italian Immersion 2
ITLN 3800	Special Topics in Italian
ITLN 4800	Special Topics in Italian
ITLN 4992	Directed Study
ITLN 4993	Independent Study
CLTR 1290	Realism and Modernism in Italian Film
LITR 1250	Dante's Inferno and Medieval Italian Culture
CLTR 4944	Cultural Engagement Abroad

GPA Requirement

2.000 GPA required in the minor

Japanese, Minor

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

Required Courses

Complete two of the following: 8

ASNS 1150	East Asian Studies
CLTR 1120	Introduction to Languages, Literature, and Culture
CLTR 1700	Introduction to Japanese Pop Culture
CLTR 4944	Cultural Engagement Abroad

Required Language Courses

Students with prior language skills in Japanese are allowed to waive up to four JPNS language courses.

JPNS 1101	Elementary Japanese 1	4
or JPNS 1301	Elementary Japanese Immersion 1	
JPNS 1102	Elementary Japanese 2	4
or JPNS 1302	Elementary Japanese Immersion 2	
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

Elective

Complete one of the following: 4

CLTR 1260	Japanese Film
CLTR 4944	Cultural Engagement Abroad
JPNS 3101	Advanced Japanese 1
or JPNS 3301	Advanced Japanese Immersion 1
JPNS 3102	Advanced Japanese 2
or JPNS 3302	Advanced Japanese Immersion 2
HIST 1252	Japanese Literature and Culture
HIST 2351	Modern Japan
JPNS 3800	Special Topics in Japanese
JPNS 4800	Special Topics in Japanese
JPNS 4992	Directed Study
JPNS 4993	Independent Study

GPA Requirement

2.000 GPA required in the minor

Portuguese, Minor

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

Required Culture Courses

CLTR 1120	Introduction to Languages, Literature, and Culture	4
CLTR 2510	Brazilian Culture through Film	4

Language Courses

Students with prior language skills in Portuguese are allowed to waive up to four PORT language courses.

PORT 1101	Elementary Portuguese 1	4
or PORT 1301	Elementary Portuguese Immersion 1	
PORT 1102	Elementary Portuguese 2	4
or PORT 1302	Elementary Portuguese Immersion 2	
PORT 2101	Intermediate Portuguese 1	4
or PORT 2301	Intermediate Portuguese Immersion 1	
PORT 2102	Intermediate Portuguese 2	4
or PORT 2302	Intermediate Portuguese Immersion 2	

Elective

Complete one of the following: 4

CLTR 4944	Cultural Engagement Abroad
PORT 3101	Advanced Portuguese 1
PORT 3301	Advanced Portuguese Immersion 1
PORT 3102	Advanced Portuguese 2
PORT 3302	Advanced Portuguese Immersion 2
PORT 3800	Special Topics in Portuguese
PORT 3900	Specialized Instruction in Portuguese
PORT 4800	Special Topics in Portuguese
PORT 4992	Directed Study
PORT 4993	Independent Study

GPA Requirement

2.000 GPA required in the minor

Russian, Minor

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

Required Culture Courses

CLTR 1120	Introduction to Languages, Literature, and Culture	4
HIST 1285	Introduction to Russian Civilization	4

Required Language Courses

Students with prior language skills in Russian are allowed to waive up to four RSSN language courses.

RSSN 1101	Elementary Russian 1	4
or RSSN 1301	Elementary Russian Immersion 1	
RSSN 1102	Elementary Russian 2	4
or RSSN 1302	Elementary Russian Immersion 2	
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	

Elective

Complete one of the following: 4

CLTR 4944	Cultural Engagement Abroad	
HIST 1286	History of the Soviet Union	
HIST 2386	History of Soviet Cinema	
RSSN 3101	Advanced Russian 1	
RSSN 3102	Advanced Russian 2	
RSSN 3800	Special Topics in Russian	
RSSN 3900	Specialized Instruction in Russian	
RSSN 4800	Special Topics in Russian	
RSSN 4992	Directed Study	
RSSN 4993	Independent Study	

GPA Requirement

2.000 GPA required in the minor

Spanish, Minor

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

Required Courses

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	
Complete one of the following:		4
CLTR 1504	Introduction to Spanish Culture	
CLTR 1505	Introduction to Latin American Culture	

CLTR 4944	Cultural Engagement Abroad	
-----------	----------------------------	--

Culture

CLTR 1120	Introduction to Languages, Literature, and Culture	4
-----------	----------------------------------------------------	---

Masterpieces Series

Complete one of the following: 4

LITR 4561	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century	
or LITR 4560	Masterpieces of Spanish Literature: Eighteenth–Twentieth Century	
CLTR 3715	New Narratives: Latin America after 1989	
CLTR 3720	Literature, Arts, and Poverty in Latin America	

Advanced Elective

Complete one of the following: 4

CLTR 1240	Latin American Film	
CLTR 1265	Spanish Civil War on Film	
CLTR 3710	Representing Latin American Cities	
CLTR 3725	Representing Violence and Human Rights in Latin America	
CLTR 4944	Cultural Engagement Abroad	
LITR 3502	Cervantes and His Times	
SPNS 3102	Advanced Spanish 2	
or SPNS 3302	Advanced Spanish Immersion 2	
LITR 4561	Masterpieces of Spanish Literature: Twelfth–Seventeenth Century	
or LITR 4560	Masterpieces of Spanish Literature: Eighteenth–Twentieth Century	
LITR 4655	Latin American Literature	
LITR 4565	Spanish Golden Age	
LANG 4800	Special Topics in Language	

GPA Requirement

2.000 GPA required in the minor

Philosophy and ReligionWebsite (<http://www.northeastern.edu/cssh/philosophy>)

Ronald Sandler
Professor and Chair

371 Holmes Hall
617.373.3636
617.373.4359 (fax)

Ronald Sandler, Professor and Chair, r.sandler@northeastern.edu
Michael Meyer, Teaching Professor and Academic Advisor, m.meyer@northeastern.edu
Benjamin Flickner, Department Administrative Officer, b.flickner@northeastern.edu

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, 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 three ways to major in philosophy: the standard major, the concentration in law and 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, and media and screen studies. Details regarding these majors can be found on the programs page.

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 culture provides students of religion with valuable insight into the ways in which religion interacts with a wide variety of forces to shape the experiences of the adherents of a particular faith. The combined major is designed to enable students to understand the history, culture, and religion of the Jewish people; analyze and apply theoretical understanding to the interaction between religious, social, and historical factors that have shaped the experiences of the Jewish people; and demonstrate fluency in understanding the major religious traditions of the world. 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.

Preapproved Template Programs in Philosophy and in Religious Studies

The Department of Philosophy and Religion offers preapproved template programs in the following areas:

- Philosophy
- Religious 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 (<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. 30)." For template program requirements, visit the myNEU web portal (<http://www.myneu.neu.edu>), click on the "Self-Service" tab, then on "My Degree Audit."

Programs

Bachelor of Arts

- Philosophy (p. 749)
- Religious Studies (p. 755)
- Environmental Studies and Philosophy (p. 759)
- International Affairs and Religious Studies (p. 760)
- Media and Screen Studies and Philosophy (p. 764)
- Jewish Studies and Religion (p. 777)
- Political Science and Philosophy (p. 766)

Bachelor of Science (BS)

- Philosophy (p. 767)
- Computer Science and Philosophy (p. 757)
- Economics and Philosophy (p. 773)
- Physics and Philosophy (p. 773)
- Political Science and Philosophy (p. 775)
- Politics, Philosophy, and Economics (p. 575)

Dual Degrees

- Philosophy, BA/JD (p. 780)
- Philosophy, BS/JD (p. 780)

Minor

- Philosophy (p. 780)
- Religious Studies (p. 780)
- Ethics (p. 781)

Philosophy, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Concentration

Complete the philosophy generalist requirements, the concentration in law and ethics, or the concentration in religious studies.

- Philosophy Generalist requirements (p. 750)
- Concentration in Law and Ethics (p. 750)
- Concentration in Religious Studies (p. 751)

Philosophy Major Credit Requirement

Complete 32 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

Philosophy Required Courses

PHIL 1115	Introduction to Logic	4
or PHIL 1215	Symbolic Logic	
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4

Advanced Philosophy Elective

Complete one of the following: 4		
PHIL 3435	Moral Philosophy	
PHIL 3436	History of Modern Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4535	Philosophy of Mind	

Philosophy Seminar

Complete one of the following: 4		
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	

PHIL 4535	Philosophy of Mind	
PHIL 4901	Topics in Philosophy Seminar	
PHIL 4902	Great Philosophers Seminar	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 5001	Global Justice	

Additional Electives

Complete four additional courses in philosophy and religion. 16

CONCENTRATION IN LAW AND ETHICS

Philosophy Required Courses

PHIL 1115	Introduction to Logic	4
or PHIL 1215	Symbolic Logic	
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
or PHIL 3436	History of Modern Moral Philosophy	

Philosophy Seminar

Complete one of the following: 4		
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4901	Topics in Philosophy Seminar	
PHIL 4902	Great Philosophers Seminar	
PHIL 5001	Global Justice	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4903	Seminar in Religion	

Ethics-Related Electives

Complete two of the following: 8		
PHIL 1102	Introduction to Contemporary Moral Issues	
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 1272	Ethics in the World's Religions	
PHIL 2301	Philosophical Problems of Law and Justice	
PHIL 2302	Philosophical Problems of War and Peace	
PHIL 2303	Social and Political Philosophy	
PHIL 3465	Advanced Medical Ethics	
PHIL 3480	Environmental Philosophy	
PHIL 5001	Global Justice	

Philosophy Elective

Complete one course in philosophy and religion. 4

Law-Related Electives

Complete two courses from social science departments. 8
These courses are to be chosen in consultation with the department:

AFAM 2337	African-American History before 1900
AFAM 2338	African-American History since 1900
AFAM 2339	Analysis of American Racism
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	Juvenile Justice
CRIM 4010	Gender, Crime, and Justice
CRIM 4020	Race, Crime, and Justice
CRIM 4110	Legal Philosophy
CRIM 4610	Youth Gangs
CRIM 4630	Political Crime and Terrorism
ECON 1270	Economic Status of Ethnic Minorities
ECON 3440	Public Finance
ECON 3442	Money and Banking
ECON 3461	Government and Business
ECON 3520	History of Economic Thought
ENGL 3325	Rhetoric of Law
HIST 1212	History of Race
HIST 1213	History of Violence
HIST 2340	Cultural History of the U.S.
INTL 1101	Globalization and International Affairs
INTL 3400	International Conflict and Negotiation
JRNL 3550	Law of the Press
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 1232	American Society
SOCL 1241	Sociology of Violence
SOCL 1245	Sociology of Poverty
SOCL 1246	Environment and Society
SOCL 2358	Current Issues in Cities and Suburbs
SOCL 3401	Social Policy and Intervention
SOCL 3402	Feminist Perspectives on Society
SOCL 3406	Class, Crime, and the Legal System
SOCL 4518	Law and Social Issues
SOCL 4522	Political Ecology and Environmental Justice
SOCL 4535	European Union: Social and Political
URBS 2358	Current Issues in Cities and Suburbs

CONCENTRATION IN RELIGIOUS STUDIES*Philosophy Required Courses*

PHIL 1115	Introduction to Logic	4
or PHIL 1215	Symbolic Logic	
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
or PHIL 3436	History of Modern Moral Philosophy	
<i>Philosophy Seminar</i>		
Complete one of the following: 4		
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4901	Topics in Philosophy Seminar	
PHIL 4902	Great Philosophers Seminar	
PHIL 5001	Global Justice	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
<i>Religious Studies Courses</i>		
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 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

Philosophy Elective
Complete one course in philosophy and religion. 4

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		
				0
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 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		
				0
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 undergraduat 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 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 undergraduat 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 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
	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 1115	4			
PHIL 3435	4			
ENGW 3315	4			
	16	0	0	0

Year 5

Fall	Hours Spring	Hours
Elective	4 Elective	4
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 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		
	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
Foreign language core course	4	Co-op	0	Co-op	0
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
Elective	4	Co-op	0	Co-op	0
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
Elective	4	Co-op	0	Co-op	0
PHIL 1215 or 1115	4				
PHIL 3435	4				
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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Religious Studies Major Requirements

Religious Areas

Complete one course from each of the following five religious areas. Note: A course cannot be used to meet the requirement for more than one area. 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 2300	Mysticism
PHIL 4390	Cults and Sects

Ancient Mediterranean and African World Traditions

JWSS 1285	Jewish Religion and Culture
PHIL 1445	Philosophy of Religion
PHIL 2325	Ancient Philosophy and Political Thought
or POLS 2325	Ancient Philosophy and Political Thought
PHIL 2327	Medieval Western Philosophy
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 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 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 1667	Science Fiction and Film: Moral Dilemmas and Ethical Analysis
PHIL 1104	Goddesses, Witches, Saints, and Sinners: Women in Western Religions
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 1220	The Meaning of Death
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 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 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 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

Computer Science 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
------	-------	-------

Computer Science Overview

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

Computer Science Fundamental Courses

CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3500	Object-Oriented Design	4
CS 3800	Theory of Computation	4
CS 4500	Software Development	4
CS 4800	Algorithms and Data	4

Computer Science Elective Courses

Complete two upper-division computer science courses from the following ranges:

CS 2500 to CS 7999, but not CS 5010

IS 2000 to IS 7999, but not IS 4900

DS 2000 to DS 7999, but not DS 4900

Presentation Requirement

THTR 1170	The Eloquent Presenter	1
-----------	------------------------	---

Philosophy Courses

Code	Title	Hours
------	-------	-------

Philosophy Required Courses

PHIL 1115 or PHIL 1215	Introduction to Logic Symbolic Logic	4
PHIL 2325 or POLS 2325 or PHIL 2330	Ancient Philosophy and Political Thought Ancient Philosophy and Political Thought Modern Philosophy	4

PHIL 1145	Technology and Human Values	4
-----------	-----------------------------	---

PHIL 4515	Advanced Logic	4
-----------	----------------	---

Philosophy Intermediate/Advanced Electives

Complete one course from the following:

PHIL 3435 Moral Philosophy

PHIL 3436 History of Modern Moral Philosophy

PHIL 4500 Theory of Knowledge

PHIL 4505 Metaphysics

PHIL 4535 Philosophy of Mind

Philosophy Electives

Complete three additional 4 SH courses from the PHIL list. 12

Philosophy Capstone

Note: You must choose distinct courses to satisfy Intermediate/Advanced Elective and Capstone.

Complete one course from the following: 4

PHIL 4500	Theory of Knowledge
PHIL 4505	Metaphysics
PHIL 4510	Philosophy of Science
PHIL 4535	Philosophy of Mind
PHIL 4901	Topics in Philosophy Seminar
PHIL 4902	Great Philosophers Seminar
PHIL 5001	Global Justice

Integrative Course Requirement (No additional credit required)

Code	Title	Hours
CS 3800	Theory of Computation	
PHIL 4515	Advanced Logic	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

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 3309	Advanced Writing in the Humanities
ENGW 3315	Interdisciplinary Advanced Writing in the Disciplines

Required General Electives

Code	Title	Hours
Complete eleven 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

Note: CCIS intentionally makes the total credits required one less than the sum of the credits to allow for a one credit waiver if needed.

Plan of Study Four Years, 2 Co-ops in Summer 2/Fall

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 1800 and CS 1801	4	CS 2510 and CS 2511	5	CS 3500	4	Vacation	
CS 2500 and CS 2501	5	CS 2800 and CS 2801	5	Elective	4		
CS 1200	1	PHIL 2325, POLS 2325, or PHIL 2330	4				
ENGW 1111	4	Elective	4				
PHIL 1115 or 1215	4						
		18		18		8	
						0	
Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
CS 4800	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	
		PHIL 4515		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 4500	4	Elective (if needed)	4		
		PHIL Intermediate/Advanced Elective		4		Elective (if needed)	
		PHIL Capstone		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 1800 and CS 1801	4 CS 2510 and CS 2511	5 Vacation	Vacation	
CS 2500 and CS 2501	5 CS 2800 and CS 2801	5		
CS 1200	1 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 3500	4 CS Elective 1	4 Vacation	Co-op	
CS 4800	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

Environmental Studies and Philosophy, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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	Environmental History of North America	4
POLS 2395	Environmental Politics and Policy	4
SOCL 1246	Environment and Society	4
Science Component		
<i>Global Climate Change</i>		
ENVR 1110	Global Climate Change	4
<i>Earth and Environmental Sciences</i>		
Complete one of the following:		4
ENVR 1104	Natural Disasters and Catastrophes	
ENVR 1112	Environmental Geology	
ENVR 1200	Dynamic Earth	
<i>Environment</i>		
ENVR 1101	Environmental Science	4
<i>Quantitative Methods</i>		
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 or PHIL 1215	Introduction to Logic Symbolic Logic	4
PHIL 1180	Environmental Ethics	4
PHIL 2325 or POLS 2325	Ancient Philosophy and Political Thought	4

PHIL 2330	Modern Philosophy	4
Philosophy of Science/Environment		
Complete one of the following:		4
PHIL 1105	Science and Pseudoscience	
PHIL 1114	Reason, Risk, and Evidence	
PHIL 3480	Environmental Philosophy	
Advanced Philosophy Elective		
Complete one of the following:		4
PHIL 3435	Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4535	Philosophy of Mind	
Philosophy Seminar		
Complete one of the following:		4
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4901	Topics in Philosophy Seminar	
PHIL 4902	Great Philosophers Seminar	
PHIL 5001	Global Justice	

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

International Affairs and Religious 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

International Affairs Requirements

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: ¹		6-8
INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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	
ANTH 3415	Anthropology of Travel and Tourism	
COMM 2303	Global and Intercultural Communication	
MSCR 2325	Global Media	
COMM 5240	Global and Intercultural Media	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture	
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 1110	Introduction to World History
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
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2317	Comparative Urban Histories
HIST 2398	Radicals, Terrorists, and Insurgents
HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HUSV 4920	International Human Services
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 1127	Introduction to World Music
MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace
PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

International Experiential Learning

Complete at least one “international semester” via study abroad, international internship, international co-op, or two approved short-term programs abroad.

¹ Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. International Relations (POLS 1160) may not be used as a global dynamics course. See department for additional courses.

Regional Analysis Requirement

Complete two of the following courses, 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:

Code	Title	Hours
Africa		
AFRS 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4
ANTH 4510	Anthropology of Africa	4
or INTL 4510	Anthropology of Africa	
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4
HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4
Asia		
ANTH 4350	Ethnography of Southeast Asia	4
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4

HIST 1189	Introduction to South Asian History	4	ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
HIST 1252	Japanese Literature and Culture	4	ENTR 3326	Sustainability in the Latin American Business Environment	4
HIST 1253	History of Vietnam Wars	4	ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1254	Mao's China and After	4	HIST 1187	Introduction to Latin American History	4
HIST 1500	Modern Chinese History and Culture	4	HIST 1260	Modern Latin America	4
HIST 2351	Modern Japan	4	LACS 1220	Latino, Latin American, and Caribbean Studies	4
HIST 2352	Dictators and Democracy in Japan and Korea	4	LITR 1260	Caribbean Literature and Culture	4
HIST 3452	Global Chinese Migration	4	LITR 4655	Latin American Literature	4
HIST 4942	East Asian Cultural History Abroad	4	POLS 3475	Government and Politics in Latin America	4
POLS 3485	China: Governance and Foreign Policy	4	Middle East		
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4	INTL 1160	Middle East Studies	4
PHIL 1290	Chinese Philosophy and Religion	4	INTL 2100	Modern Israel	4
PHIL 2394	Chinese Buddhism	4	INTL 2200	America and the Middle East	4
PHIL 2395	Japanese Buddhism	4	INTL 2360	Human Rights in the Middle East	4
PHIL 4545	Religion and Politics in South Asia	4	INTL 2400	Politics of Islam and Gender	4
Europe			INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
CLTR 1501	Introduction to French Culture	4	CLTR 1502	Introduction to Arabic Culture	4
CLTR 1503	Introduction to Italian Culture	4	ECON 1292	Economic History of the Middle East	4
CLTR 1504	Introduction to Spanish Culture	4	HIST 1185	Introduction to Middle Eastern History	4
CLTR 2280	French Film and World War II: The German Occupation of France	4	HIST 1290	Modern Middle East	4
ECON 1293	European Economic History	4	HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4	HIST 4945	North African History Abroad	4
HIST 1270	Ancient Greece	4	JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
HIST 1271	Ancient Rome	4	POLS 3465	Government and Politics in the Middle East	4
HIST 2280	Hitler, Germany, and the Holocaust	4	POLS 3470	Arab-Israeli Conflict	4
HIST 2371	Europe 1870–1921	4	POLS 4915	Model Arab League	4
HIST 2372	Gender and Society in Modern Europe	4	PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
HIST 2376	The British Empire	4	PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
HIST 4946	Independent Field Research Abroad: Central Europe	4	PHIL 1285	Jewish Religion and Culture	4
POLS 3435	Politics and Governance of Europe and the European Union	4	PHIL 1287	Modern Judaism	4
POLS 4917	Model European Union	4	Russia		
SOCL 4535	European Union: Social and Political	4	HIST 1285	Introduction to Russian Civilization	4
Latin America			HIST 1286	History of the Soviet Union	4
AFAM 2301	Foundations of Black Culture 2	4	HIST 2386	History of Soviet Cinema	4
AFAM 2345	The Black Experience in the Caribbean	4	HIST 3486	Commissars and Managers: Soviet Economic History	4
AFAM 4507	Afro-Cuban Culture—International Study	4	LITR 3503	Russian Literature in Translation	4
ANTH 4500	Latin American Society and Development	4	POLS 3450	Government and Politics in Russia	4
or INTL 4500	Latin American Society and Development		POLS 3455	Russian Foreign Policy	4
CLTR 1505	Introduction to Latin American Culture	4	SOCL 1215	Society and Culture in Russia	4
CLTR 1508	Cuban History and Culture through Film	4	or INTL 1215	Society and Culture in Russia	
CLTR 1509	An Introduction to Afro-Cuban Culture	4			
CLTR 1240	Latin American Film	4			
CLTR 4507	Afro-Cuban Culture—International Study	4			
CLTR 4508	Cuban History through Film—International Study	4			
ENTR 3316	Microfinance and Economic Development in Latin America	4			

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 1272	Ethics in the World's Religions	
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	
PHIL 2300	Mysticism	
PHIL 4390	Cults and Sects	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 2315	Adam and Eve and Their Interpreters	
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 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	
PHIL 1285	Jewish Religion and Culture	
PHIL 2314	Biblical Prophets and Their Interpreters	
PHIL 2316	Interpreting the Bible	
PHIL 4390	Cults and Sects	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
PHIL 2315	Adam and Eve and Their Interpreters	
PHIL 2311	The Kabbalah: Jewish Mysticism from the Zohar to Madonna	
PHIL 1445	Philosophy of Religion	
PHIL 2327	Medieval Western Philosophy	
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 2398	Religion and Culture in Indian Cinema	
PHIL 4545	Religion and Politics in South Asia	
PHIL 2395	Japanese Buddhism	
PHIL 2394	Chinese Buddhism	
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 1285	Jewish Religion and Culture	

PHIL 2316	Interpreting the Bible	
PHIL 4390	Cults and Sects	
PHIL 1271	Sex in Judaism, Christianity, and Islam	
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 courses, 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 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 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 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/Religious Studies Combined-Major Credit Integrative Requirement

Code	Title	Hours
Capstone		
INTL 4700	Senior Capstone Seminar in International Affairs	4

International Affairs/Religious Studies Combined-Major 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
INTL 1000	1 Elective	4 Vacation	0 Vacation	0
INTL 1101	4 Foreign language core course	4		
ENGW 1111	4 PHIL 1275	4		
PHIL 1120	4 ECON 1115	4		
Foreign language core course	4			
	17	16	0	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
POLS 1160	4 INAF global dynamics course	4 Vacation	0 Vacation	0
Elective	4 PHIL 1220	4		

Foreign language core course	4 Elective	4		
PHIL 1272	4 Foreign language core course	4		
	16	16	0	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
INAF global dynamics course	4 ENGW 3315	4 Vacation	0 Vacation	0
INAF regional analysis course	4 INAF regional analysis course	4		
Religious studies elective	4 PHIL 4545	4		
Elective	4 Elective	4		
	16	16	0	0

Year 4

Fall	Hours Spring	Hours
INTL 3400	4 INTL 4700	4
PHIL 4390	4 Upper division elective	4
Religious studies elective	4 PHIL 4606	4
Elective	4 Religious studies elective	4
	16	16

Total Hours: 129

Media and Screen Studies and Philosophy, BA

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 2305	Digital Media Culture	
MSCR 2325	Global Media	
MSCR 2500	Digital Media Research	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3300	Media Activism	
MSCR 3402	Television and Society	
MSCR 3422	Media Audiences	
MSCR 3423	Twentieth-Century Media	
MSCR 3426	Popular Music as Media Form	
MSCR 3428	Television Studies	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
MSCR 3438	Celebrity Culture	
MSCR 3500	Documentary Storytelling	
CINE 1200	Exploring the Humanities through Film	
CINE 2160	Narrative Filmmaking	
CINE 2161	Video Software Tools	
CINE 2336	American Film and Culture	
CINE 2350	History of Film	
CINE 2394	Modern Film and Global Culture	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Video Art	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Media and Screen Electives		
Complete two of the following:		8
MSCR 4206	Age, Media, and Representation	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4610	The Networked Self	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4685	Interactive Documentary	
MSCR 4970	Junior/Senior Honors Project 1	
MSCR 4971	Junior/Senior Honors Project 2	
MSCR 4991	Research	
MSCR 4992	Directed Study	

MSCR 4993	Independent Study	
MSCR 4996	Experiential Education Directed Study	
CINE 3370	Contemporary Directions in Cinema	
CINE 3500	Film Theory	
CINE 3920	Topics in Film Studies	
CINE 4500	Modernism/Modernity and Film	
CINE 4550	Cinema Studies Seminar	
CINE 4560	Directing the Short Fiction Film	
ARTD 4582		
ARTD 4682	Video in Context: Video and Social Change	

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
or PHIL 1215	Symbolic Logic	
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4
Intermediate/Advanced Philosophy Elective		
Complete one of the following:		4
PHIL 3435	Moral Philosophy	
PHIL 3436	History of Modern Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4535	Philosophy of Mind	
Philosophy Topics Electives		
Complete one of the following:		4
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4901	Topics in Philosophy Seminar	
PHIL 4902	Great Philosophers Seminar	
PHIL 5001	Global Justice	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
Philosophy Electives		
Complete four additional electives from the philosophy department.		16

Integrative Requirement

Code	Title	Hours
CINE 3500	Film Theory	4
or MSCR 3300	Media Activism	

Media and Screen Studies Grade Requirement

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the

following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Major Credit Requirement

Complete 72 semester hours in the major.

Program Requirement

128 total semester hours required

Political Science and Philosophy, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Requirements for BA

All undergraduate students are required to complete the BA language requirements (p. 37).

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 2326	Premodern 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. 766).

- Campaigns and Elections
- Identity, Culture, and Politics
- International Relations and Diplomacy

- Law and Legal Studies
- Public Policy

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115 or PHIL 1215	Introduction to Logic Symbolic Logic	4
PHIL 2325 or POLS 2325	Ancient Philosophy and Political Thought Ancient Philosophy and Political Thought	4
PHIL 2330	Modern Philosophy	4
Advanced Philosophy Elective		
Complete one of the following:		4
PHIL 3435	Moral Philosophy	
PHIL 3436	History of Modern Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4535	Philosophy of Mind	
Additional Electives		
Complete four additional electives in philosophy or religion.		16
Philosophy Seminar		
Complete one of the following:		4
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
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 4901	Topics in Philosophy Seminar	
PHIL 4902	Great Philosophers Seminar	
PHIL 4903	Seminar in Religion	
PHIL 5001	Global Justice	

Integrative Requirement

Code	Title	Hours
Complete the following:		
PHIL 4525 or PHIL 5001	Philosophy of Social Science 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	Campaign and Elections Practicum	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	Intergovernmental Relations
POLS 3310	Public Opinion, Voting, and Elections
POLS 3162	Local Campaigns and Elections
POLS 3320	Politics and Mass Media
POLS 3402	Survey Research and Polling
POLS 3304	Presidential Nominating Process

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	
<i>Electives</i>		
Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
<i>Core Courses</i>		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Concentration

Complete the philosophy generalist requirements, the concentration in law and ethics, or the concentration in religious studies.

- Philosophy Generalist (p. 768)
- Concentration in Law and Ethics (p. 768)
- Concentration in Religious Studies (p. 769)

Philosophy Major Credit Requirement

Complete 32 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. 12

General Electives

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

University-Wide Requirements

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.

Program Requirements

128 total semester hours required

Concentrations**PHILOSOPHY GENERALIST***Philosophy Required Courses*

PHIL 1115	Introduction to Logic	4
or PHIL 1215	Symbolic Logic	

PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	

PHIL 2330	Modern Philosophy	4
-----------	-------------------	---

Advanced Philosophy Elective

Complete one of the following: 4

PHIL 3435	Moral Philosophy	
PHIL 3436	History of Modern Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4535	Philosophy of Mind	

Philosophy Seminar

Complete one of the following: 4

PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4901	Topics in Philosophy Seminar	
PHIL 4902	Great Philosophers Seminar	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4903	Seminar in Religion	
PHIL 5001	Global Justice	

Additional Electives

Complete four additional courses in philosophy and religion. 16

CONCENTRATION IN LAW AND ETHICS*Philosophy Required Courses*

PHIL 1115	Introduction to Logic	4
or PHIL 1215	Symbolic Logic	

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
-----------	------------------	---

or PHIL 3436 History of Modern Moral Philosophy

Philosophy Seminar

Complete one of the following: 4

PHIL 4500	Theory of Knowledge	
-----------	---------------------	--

PHIL 4505	Metaphysics	
-----------	-------------	--

PHIL 4510	Philosophy of Science	
-----------	-----------------------	--

PHIL 4515	Advanced Logic	
-----------	----------------	--

PHIL 4535	Philosophy of Mind	
-----------	--------------------	--

PHIL 4901	Topics in Philosophy Seminar	
-----------	------------------------------	--

PHIL 4902	Great Philosophers Seminar	
-----------	----------------------------	--

PHIL 5001	Global Justice	
-----------	----------------	--

PHIL 4547	Seminar: Apocalypticism	
-----------	-------------------------	--

PHIL 4903	Seminar in Religion	
-----------	---------------------	--

Ethics-Related Electives

Complete two of the following: 8

PHIL 1102	Introduction to Contemporary Moral Issues	
-----------	-------------------------------------------	--

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 1272	Ethics in the World's Religions	
-----------	---------------------------------	--

PHIL 2301	Philosophical Problems of Law and Justice	
-----------	-------------------------------------------	--

PHIL 2302	Philosophical Problems of War and Peace	
-----------	-----------------------------------------	--

PHIL 2303	Social and Political Philosophy	
-----------	---------------------------------	--

PHIL 3465	Advanced Medical Ethics	
-----------	-------------------------	--

PHIL 3480	Environmental Philosophy	
-----------	--------------------------	--

PHIL 5001	Global Justice	
-----------	----------------	--

Philosophy Elective

Complete one course in philosophy and religion. 4

Law-Related Electives

Complete two courses from social science departments. 8

These courses are to be chosen in consultation with the department:

AFAM 2337	African-American History before 1900	
-----------	--------------------------------------	--

AFAM 2338	African-American History since 1900	
-----------	-------------------------------------	--

AFAM 2339	Analysis of American Racism	
-----------	-----------------------------	--

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	Juvenile Justice	
-----------	------------------	--

CRIM 4010	Gender, Crime, and Justice
CRIM 4020	Race, Crime, and Justice
CRIM 4110	Legal Philosophy
CRIM 4610	Youth Gangs
CRIM 4630	Political Crime and Terrorism
ECON 1270	Economic Status of Ethnic Minorities
ECON 3440	Public Finance
ECON 3442	Money and Banking
ECON 3461	Government and Business
ECON 3520	History of Economic Thought
ENGL 3325	Rhetoric of Law
HIST 1212	History of Race
HIST 1213	History of Violence
HIST 2340	Cultural History of the U.S.
INTL 1101	Globalization and International Affairs
INTL 3400	International Conflict and Negotiation
JRNL 3550	Law of the Press
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 1232	American Society
SOCL 1241	Sociology of Violence
SOCL 1245	Sociology of Poverty
SOCL 1246	Environment and Society
SOCL 2358	Current Issues in Cities and Suburbs
SOCL 3401	Social Policy and Intervention
SOCL 3402	Feminist Perspectives on Society
SOCL 3406	Class, Crime, and the Legal System
SOCL 4518	Law and Social Issues
SOCL 4522	Political Ecology and Environmental Justice
SOCL 4535	European Union: Social and Political
URBS 2358	Current Issues in Cities and Suburbs

CONCENTRATION IN RELIGIOUS STUDIES

Philosophy Required Courses

PHIL 1115	Introduction to Logic	4
or PHIL 1215	Symbolic Logic	
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
or PHIL 3436	History of Modern Moral Philosophy	

Philosophy Seminar

Complete one of the following:		4
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	

PHIL 4901	Topics in Philosophy Seminar
PHIL 4902	Great Philosophers Seminar
PHIL 5001	Global Justice
PHIL 4547	Seminar: Apocalypticism
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4903	Seminar in Religion

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 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

Philosophy Elective

Complete one course in philosophy and religion. 4

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 1215 or 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
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 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 undergraduat 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 1215 or 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			
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 1215 or 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 1215 or 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		

Year 5			
Fall	Hours Spring	Hours	Hours
Co-op	0 Elective	4	
	Philosophy seminar	4	
	Upper-division elective	4	
	Elective	4	
	0	16	8

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
PHIL 1215 or 1115	4			
Elective	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

Economics 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 3520	History of Economic Thought	4
ECON 3560	Applied Econometrics	4

Economics Electives

Complete two of the following with at least one numbered 3000 or above: 8

ECON 1240	Economics of Crime	
ECON 1281	Economics of the Creative Industries	
ECON 1290	History of the Global Economy	
ECON 3405	A Critique of Capitalism	
ECON 3424	Law and Economics	

ECON 4681	Information Economics and Game Theory
-----------	---------------------------------------

Philosophy Requirements

Code	Title	Hours
------	-------	-------

Philosophy Required Courses

PHIL 1115	Introduction to Logic	4
or PHIL 1215	Symbolic Logic	
PHIL 2325	Ancient Philosophy and Political Thought	4
PHIL 2330	Modern Philosophy	4

Advanced Philosophy Elective

Complete one of the following:		4
PHIL 3435	Moral Philosophy	
PHIL 3436	History of Modern Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4535	Philosophy of Mind	

Additional Electives

Complete three additional electives in philosophy or religion. At least one must be numbered 2000 or above. 12

Integrative Requirement

Code	Title	Hours
Complete two of the following that have not been used in above requirements:		8

PHIL 3435	Moral Philosophy	
PHIL 4510	Philosophy of Science	
PHIL 4500	Theory of Knowledge	
PHIL 5001	Global Justice	
PHIL 5003	Ethics, Justice, and Global Climate Change	
PHIL 4992	Directed Study	

Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

Physics 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Major Requirements

Code	Title	Hours
Introductory Physics		
<i>Physics 1</i>		
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	
<i>Physics 2</i>		
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 or PHYS 4606	Mathematical and Computational Methods for Physics	
PHYS 5111	Astrophysics and Cosmology	
PHYS 5113	Introduction to Particle and Nuclear Physics	
PHYS 5114	Physics of Advanced Materials	
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 or PHIL 1215	Introduction to Logic Symbolic Logic	4
PHIL 2325 or POLS 2325	Ancient Philosophy and Political Thought Ancient Philosophy and Political Thought	4
PHIL 2330	Modern Philosophy	4
PHIL 4500 or PHIL 4505	Theory of Knowledge Metaphysics	4
Philosophy Seminar		
Complete one of the following:		4
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4510	Philosophy of Science	
PHIL 4515	Advanced Logic	
PHIL 4535	Philosophy of Mind	
PHIL 4901	Topics in Philosophy Seminar	
PHIL 4902	Great Philosophers Seminar	
PHIL 5001	Global Justice	
PHIL 4547	Seminar: Apocalypticism	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	

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

Physics and Philosophy Major Credit Requirement

Complete 98 semester hours in the major.

Program Requirement

131 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
PHYS 1000	1	MATH 1342	4	Vacation	0
MATH 1341	4	PHYS 1165	4	Vacation	0
Elective	4	PHYS 1166	1		
PHYS 1161	4	PHYS 1167	0		
PHYS 1162	1	PHIL 1115	4		
PHYS 1163	0	ENGW 1111	4		
PHIL	4				
undergraduate elective					
		18		17	
				0	
				0	

Year 2				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
PHIL 2325	4 PHYS 2305	4 Vacation	0 Co-op	0
MATH 2321	4 MATH 2341	4		
PHYS 2303	4 PHIL 2330	4		
PHYS 2371	3 Elective	4		
	15	16	0	0

Year 3				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 PHYS 3601	4 Elective	4 Co-op	0
	PHYS 3602	4 PHYS 3600	4	
	PHIL undergraduate elective	4		
	PHIL 4505	4		
	0	16	8	0

Year 4				
Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	0 PHIL undergraduate elective	4 Elective	4 Co-op	0
	ENGW 3302	4 PHYS undergraduate elective	4	
	Elective	4		
	PHIL 4510	4		
	0	16	8	0

Year 5		
Fall	Hours Spring	Hours
Co-op	0 PHIL 4902	4
	Elective	4
	PHYS 5115	4
	PHYS undergraduate elective	4
	0	16

Total Hours: 130

Political Science 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 2326	Premodern 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. 776).

- Campaigns and Elections
- Identity, Culture, and Politics
- International Relations and Diplomacy
- Law and Legal Studies
- Public Policy

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115	Introduction to Logic	4
or PHIL 1215	Symbolic Logic	
PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4

Advanced Philosophy Elective

Complete one of the following:			4
PHIL 3435	Moral Philosophy		
PHIL 3436	History of Modern Moral Philosophy		
PHIL 4500	Theory of Knowledge		
PHIL 4505	Metaphysics		
PHIL 4535	Philosophy of Mind		

Additional Electives

Complete four additional electives in philosophy or religion.			16
---------------------------------------------------------------	--	--	----

Philosophy Seminar

Complete one of the following:			4
PHIL 4500	Theory of Knowledge		
PHIL 4505	Metaphysics		
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 4901	Topics in Philosophy Seminar
PHIL 4902	Great Philosophers Seminar
PHIL 4903	Seminar in Religion
PHIL 5001	Global Justice

Integrative Requirement

Code	Title	Hours
Complete the following:		
PHIL 4525	Philosophy of Social Science	4
or PHIL 5001	Global Justice	

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	Campaign and Elections Practicum	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	Intergovernmental Relations		
POLS 3310	Public Opinion, Voting, and Elections		
POLS 3162	Local Campaigns and Elections		
POLS 3320	Politics and Mass Media		
POLS 3402	Survey Research and Polling		
POLS 3304	Presidential Nominating Process		

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
------	-------	-------

Core Course

POLS 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	

Electives

Complete three of the following:			12
POLS 2333	Politics and Film		
POLS 2336	Politics and the Arts		
POLS 2360	Politics of Poverty		
POLS 2368	Music and Politics		
POLS 2370	Religion and Politics		
POLS 2375	Gender and Politics		
POLS 2380	Latino Politics in the United States		
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy		

POLS 3320	Politics and Mass Media
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 4917	Model European Union
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 3409	Global Governance
POLS 3435	Politics and Governance of Europe and the European Union
POLS 3445	Politics in Central and Eastern Europe
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 2385	U.S. Health and Welfare Policy
POLS 2390	Science, Technology, and Public Policy
POLS 2395	Environmental Politics and Policy
POLS 3315	Interest Groups and Public Policy
POLS 3402	Survey Research and Polling
POLS 3410	Nontraditional Security Issues

POLS 3412	Homeland Security Policy and Politics
POLS 3425	U.S. Foreign Policy
POLS 4948	Community-Based Research Practicum

Jewish Studies and Religion, 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. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Jewish Studies Requirements

Code	Title	Hours
Required Course		
PHIL 1285	Jewish Religion and Culture	4
or JWSS 1285	Jewish Religion and Culture	

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

JWSS 2500	Zionism and the Challenges of Jewish Statehood	
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	
or JWSS 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	
PHIL 3385	History of Jewish Rationalism	
PHIL 4605	Advanced Seminar: Spinoza	

Jewish History

Complete two of the following: 8

HIST 1282	The Holocaust and Comparative Genocide	
HIST 1292	Jerusalem: Space and Image	

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 2285	America and the Holocaust	
or JWSS 2285	America and the Holocaust	
HIST 2300	Race, Religion, Ethnicity: The Example of Jewishness	
or JWSS 2300	Race, Religion, Ethnicity: The Example of Jewishness	
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 1575	Jewish Film and Fiction	
or JWSS 1575	Jewish Film and Fiction	
CLTR 3450	Israeli and Palestinian Film	
ENGL 2610	Contemporary Israeli Literature and Art Abroad	
or JWSS 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	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
JWSS 2259	Sex and Gender in the Jewish Experience	
or WMNS 2259	Sex and Gender in the Jewish Experience	
JWSS 2269	Jews and American Popular Culture	
MUSC 1132	Music of the Jewish People	

Jewish Studies Electives

Complete three of the following: 12

CLTR 1575	Jewish Film and Fiction	
or JWSS 1575	Jewish Film and Fiction	
CLTR 3450	Israeli and Palestinian Film	
ENGL 2610	Contemporary Israeli Literature and Art Abroad	
or JWSS 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	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
or JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
HIST 1282	The Holocaust and Comparative Genocide	
HIST 1292	Jerusalem: Space and Image	

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 2285	America and the Holocaust
or JWSS 2285	America and the Holocaust
HIST 2300	Race, Religion, Ethnicity: The Example of Jewishness
or JWSS 2300	Race, Religion, Ethnicity: The Example of Jewishness
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 2269	Jews and American Popular Culture
JWSS 2500	Zionism and the Challenges of Jewish Statehood
JWSS 3447	Topics in Jewish Studies
JWSS 4992	Directed Study
MUSC 1132	Music of the Jewish People
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
or JWSS 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 3385	History of Jewish Rationalism
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4605	Advanced Seminar: Spinoza
POLS 2370	Religion and Politics
POLS 3465	Government and Politics in the Middle East
POLS 3470	Arab-Israeli Conflict
SOCL 1240	Sociology of Prejudice and Violence
SOCL 1241	Sociology of Violence
SOCL 2270	Race and Ethnic Relations
WMNS 2259	Sex and Gender in the Jewish Experience
or JWSS 2259	Sex and Gender in the Jewish Experience

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 2300	Mysticism	
PHIL 2327	Medieval Western Philosophy	
Philosophy or Religion Seminar		
Complete one of the following:		4
PHIL 4547	Seminar: Apocalypticism	
PHIL 4605	Advanced Seminar: Spinoza	
PHIL 4606	Seminar: Theories and Methods in Religious Studies	
PHIL 4901	Topics in Philosophy Seminar	
PHIL 4902	Great Philosophers Seminar	
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 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 2327	Medieval Western Philosophy
PHIL 3385	History of Jewish Rationalism
PHIL 3387	Religion, Nation, and Identity in Modern Jewish Thought
PHIL 4390	Cults and Sects
PHIL 4393	Asian Religions in the United States
PHIL 4395	Ramayana
AFRS 3410	Religion and Spirituality in the African Diaspora
PHIL 1445	Philosophy of Religion
PHIL 4545	Religion and Politics in South Asia
PHIL 4546	Advanced Biblical Studies: Hebrew Bible
PHIL 4547	Seminar: Apocalypticism
PHIL 4605	Advanced Seminar: Spinoza
PHIL 4606	Seminar: Theories and Methods in Religious Studies
PHIL 4901	Topics in Philosophy Seminar
PHIL 4902	Great Philosophers Seminar
PHIL 4903	Seminar in Religion
PHIL 4904	Major Figures in Religious Studies
PHIL 4906	Topics in Religious Studies
PHIL 4991	Research
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 8

Complete two courses in Hebrew. These courses also count toward the BA language requirement.

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	PHIL 1120	4	Vacation	0	Vacation	0
PHIL 1285	4	HIST 1282	4				
Elective	4	Elective	4				
Foreign language core course	4	Foreign language core course	4				
		16		16		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	PHIL 1280	4				
HBRW 1101	4	Religious studies elective	4				
Religious studies elective	4	Foreign language core course	4				
		16		16		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	
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	
Year 5							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op	0	PHIL 4390	4				
		Jewish studies elective	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 1120	4 Vacation	0 Vacation	0
PHIL 1285	4 HIST 1282	4		
Elective	4 Elective	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
PHIL 2314	4 Co-op	0 Co-op	0 Foreign language core course	4
PHIL 1275	4		Elective	4
HBRW 1101	4			
PHIL 2300	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

Philosophy, BA/JD**Program Requirements**

Students in the 3+3 Program begin their first-year law school courses during their fourth year of study and apply those credits toward both their bachelor's degree and law degree. The program is available only by invitation.

Philosophy, BS/JD**Program Requirements**

Students in the 3+3 Program begin their first-year law school courses during their fourth year of study and apply those credits toward both their bachelor's degree and law degree. The program is available only by invitation.

Philosophy, Minor

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

Required Courses

PHIL 2325	Ancient Philosophy and Political Thought	4
or POLS 2325	Ancient Philosophy and Political Thought	
PHIL 2330	Modern Philosophy	4

Elective Courses

Complete three courses in philosophy and religion. 12

GPA Requirement

2.000 GPA required in the minor

Religious Studies, Minor

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

Required Courses

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 2394	Chinese Buddhism
PHIL 2395	Japanese Buddhism

PHIL 4390	Cults and Sects
-----------	-----------------

Elective Course

Complete one of the following courses:

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 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

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

Required Courses

Complete four courses from the following list, two of which must be at or above the 2000 level:

PHIL 1102	Introduction to Contemporary Moral Issues	4
PHIL 1111	Introduction to World Religions	4
PHIL 1120	Understanding the Bible	4
PHIL 1130	Ethics: East and West	4
PHIL 1145	Technology and Human Values	4
PHIL 1150	Sex, Power, and Oppression: An Introduction	4
PHIL 1155	Introduction to Human Rights	4
PHIL 1160	Introduction to Economic Justice	4
PHIL 1165	Moral and Social Problems in Healthcare	4
PHIL 1170	Business Ethics	4
PHIL 1180	Environmental Ethics	4
PHIL 1185	The Ethics of Food	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1271	Sex in Judaism, Christianity, and Islam	4
PHIL 1272	Ethics in the World's Religions	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4
PHIL 1276	Indian Religions	4
PHIL 1290	Chinese Philosophy and Religion	4
PHIL 1666	The Problem of Evil in Film	4
PHIL 2001	Ethics and Evolutionary Games	4
PHIL 2301	Philosophical Problems of Law and Justice	4
PHIL 2302	Philosophical Problems of War and Peace	4
PHIL 2303	Social and Political Philosophy	4
PHIL 2325	Ancient Philosophy and Political Thought	4

PHIL 2394	Chinese Buddhism	4
PHIL 2395	Japanese Buddhism	4
PHIL 3435	Moral Philosophy	4
PHIL 3465	Advanced Medical Ethics	4
PHIL 3480	Environmental Philosophy	4
PHIL 4390	Cults and Sects	4
PHIL 4545	Religion and Politics in South Asia	4
PHIL 5001	Global Justice	4

GPA Requirement

2.000 GPA required in the minor

Political Science

Website (<http://www.northeastern.edu/polisci>)

John Portz, PhD

Professor and Chair

960A Renaissance Park

617.373.2796

617.373.5311 (fax)

Jermichael Young, Administrative Secretary, je.young@northeastern.edu

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. 28)."

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)

- Political Science (p. 782)
- Environmental Studies and Political Science (p. 786)
- Media and Screen Studies and Political Science (p. 788)
- Political Science and Communication Studies (p. 790)
- Political Science and Economics (p. 792)
- Political Science and International Affairs (p. 794)
- Political Science and Philosophy (p. 799)
- Sociology and Political Science (p. 801)

Bachelor of Science (BS)

- Political Science (p. 803)
- Biology and Political Science (p. 806)
- Criminal Justice and Political Science (p. 808)
- Political Science and Business Administration (p. 810)
- Political Science and Communication Studies (p. 813)
- Political Science and Economics (p. 815)
- Political Science and Philosophy (p. 817)
- Politics, Philosophy, and Economics (p. 575)

Dual Degrees

- Political Science, BA/MA (p. 819)
- Political Science, BA/MPA (p. 821)
- Political Science, BA/Security and Resilience Studies, MS (p. 823)
- Political Science, BS/MA (p. 827)
- Political Science, BS/MPA (p. 829)
- Political Science, BS/Security and Resilience Studies, MS (p. 832)
- Political Science, BA/JD (p. 827)
- Political Science, BS/JD (p. 835)

Minors

- Political Science (p. 835)
- American Political Institutions (p. 836)
- International Security Studies (p. 836)

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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Introduction to College

Complete "Introduction to College" for your major.

Political Science Major Requirements

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 2326	Premodern 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.

Courses

Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4942	Internship in Politics	
POLS 4944	Student Leadership Practicum	
POLS 4948	Community-Based Research Practicum	

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.

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. 783).

- American political institutions
- Campaigns and elections
- Comparative politics
- Identity, culture, and politics
- International relations and diplomacy
- Law and legal studies
- Public policy
- Security studies

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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
<i>Theoretical Requirement</i>		

Complete one of the following:	4
POLS 2370 Religion and Politics	
POLS 3415 Ethnic Political Violence	
POLS 3418 Nationalism	
POLS 3427 Civil-Military Relations	
POLS 3487 Politics of Developing Nations	
POLS 3490 Democracy in Comparative Politics	

Regional Requirements

Complete two of the following:	8
POLS 3435 Politics and Governance of Europe and the European Union	
POLS 3445 Politics in Central and Eastern Europe	
POLS 3450 Government and Politics in Russia	
POLS 3460 Contemporary Government and Politics in Africa	
POLS 3465 Government and Politics in the Middle East	
POLS 3475 Government and Politics in Latin America	
POLS 3480 Government and Politics in Japan	
POLS 3485 China: Governance and Foreign Policy	

Experiential/Practicum Requirement

Complete one of the following:	4
POLS 4915 Model Arab League	
POLS 4917 Model European Union	
POLS 4918 Model NATO	
POLS 4937 Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415 or POLS 3418	Ethnic Political Violence Nationalism	4
<i>Electives</i>		
Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
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 3409	Global Governance
POLS 3435	Politics and Governance of Europe and the European Union
POLS 3445	Politics in Central and Eastern Europe
POLS 3470	Arab-Israeli Conflict

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		
POLS 2330	American Political Thought	16
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		
POLS 3408	International Security	16
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	

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

POLS	4		
undergraduate elective			
Foreign language core course	4		
0	16	8	0

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	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	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	POLS 2326	4	Co-op	0	0
		POLS 2400	4	ENVR 5210	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	0
		POLS undergraduate elective	4	Elective	4			

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	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	4
POLS 1161	0					ECON 3423	4	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	POLS 2326	4	4
POLS 2400	4					ENVR 5210	4	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	0
POLS undergraduate elective	4							
POLS undergraduate elective	4							

Foreign language 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				

Environmental Studies 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Environmental Studies Requirements

Code	Title	Hours
Social Science Component		
<i>Philosophy</i>		
PHIL 1180 or PHIL 3480	Environmental Ethics Environmental Philosophy	4
<i>Sociology</i>		
SOCL 1246	Environment and Society	4
<i>Economics</i>		
ECON 1116	Principles of Microeconomics	4
ECON 3423	Environmental Economics	4
Science Component		
Complete one course in each of the following four subject areas:		
<i>Biology</i>		
ENVR 1445	Environment and Humankind	4
<i>Earth and Environmental Sciences</i>		
Complete one of the following: 4		
ENVR 1104	Natural Disasters and Catastrophes	
ENVR 1112	Environmental Geology	
ENVR 1200	Dynamic Earth	

<i>Environment</i>		
ENVR 1101	Environmental Science	4
<i>Quantitative Methods</i>		
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 Major 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 2326	Premodern 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 3315	Interest Groups and Public Policy	
POLS 3407	International Organizations	
POLS 3410	Nontraditional Security Issues	
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. 787).

- Comparative Politics
- International Relations
- Law and Legal Studies
- Public Policy

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
<i>Theoretical Requirement</i>		
Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3415	Ethnic Political Violence	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
POLS 3490	Democracy in Comparative Politics	

Regional Requirements

Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
POLS 3450	Government and Politics in Russia	
POLS 3460	Contemporary Government and Politics in Africa	
POLS 3465	Government and Politics in the Middle East	
POLS 3475	Government and Politics in Latin America	
POLS 3480	Government and Politics in Japan	
POLS 3485	China: Governance and Foreign Policy	

Experiential/Practicum Requirement

Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	

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 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

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	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	

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
POLS 1160	4 PHIL 3480	4 Vacation	0 Co-op	0	
POLS 1161	0 ECON 3423	4			
HIST 2342	4 POLS 2395	4			
Foreign language core course	4 Foreign language core course	4			
ENVR 1445	4				
16		16		0	

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
Co-op	0 ENGW 3315	4 POLS 2326	4 Co-op	0	
	POLS 2400	4 ENVR 5210	4		
	ENVR 3300	4			
	ENVR 3301	1			
	POLS undergraduate elective	4			
0		17		8	

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	

Year 5

Fall	Hours Spring	Hours	
Co-op	0 Elective	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 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	

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
ENGW 3315	4 Co-op	0 Co-op	0 POLS 2326	4	
POLS 2400	4		ENVR 5210	4	
ENVR 3300	4				
ENVR 3301	1				
POLS undergraduate elective	4				
17		0		0	

Year 4

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours	
ENVR 5250	4 Co-op	0 Co-op	0 Vacation	0	
POLS undergraduate elective	4				
POLS undergraduate elective	4				
Foreign language core course	4				
16		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

Media and Screen Studies 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 4623	Theories of Media and Culture	4
MSCR 2220	Understanding Media and Film	4
Elective Courses		
Complete four of the following:		16
CINE 2160	Narrative Filmmaking	
CINE 2350	History of Film	
CINE 2394	Modern Film and Global Culture	
CINE 3389	Screenwriting	
CINE 3392	Gender and Film	
CINE 3446	Topics in Documentary Production	
CINE 3920	Topics in Film Studies	
CINE 3900	Film and Psychoanalysis	
MSCR 1230	Introduction to Film Production	
MSCR 1310	Introduction to Digital Media Culture	
MSCR 2302	Advertising and Promotional Culture	
MSCR 2325	Global Media	
MSCR 2500	Digital Media Research	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3300	Media Activism	
MSCR 3402	Television and Society	
MSCR 3422	Media Audiences	
MSCR 3423	Twentieth-Century Media	
MSCR 3426	Popular Music as Media Form	
MSCR 3428	Television Studies	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	
MSCR 3438	Celebrity Culture	
MSCR 3500	Documentary Storytelling	
ARTD 3480	Video: Sound and Image	
ARTD 3485	Video Art	
ARTH 2212	Survey of the Still and Moving Image	
Advanced Elective Courses		
Complete two of the following:		8
CINE 3500	Film Theory	
CINE 4500	Modernism/Modernity and Film	

CINE 4550	Cinema Studies Seminar
CINE 4560	Directing the Short Fiction Film
MSCR 4206	Age, Media, and Representation
MSCR 4208	TV History
MSCR 4602	Media and Democracy
MSCR 4610	The Networked Self
MSCR 4622	Special Topics in Media and Screen Studies
MSCR 4685	Interactive Documentary
MSCR 4970	Junior/Senior Honors Project 1
MSCR 4971	Junior/Senior Honors Project 2
MSCR 4991	Research
MSCR 4992	Directed Study
MSCR 4993	Independent Study
MSCR 4996	Experiential Education Directed Study
ARTD 4582	
ARTD 4682	Video in Context: Video and Social Change

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 2326	Premodern Political Thought	
POLS 2328	Modern Political Thought	
POLS 2330	American Political Thought	
POLS 2332	Contemporary Political Thought	
Politics in Media/Art		
Complete two of the following:		8
POLS 2333	Politics and Film	
POLS 2368	Music and Politics	
POLS 2336	Politics and the Arts	
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.).

- 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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

Concentrations

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	
<i>Electives</i>		
Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
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, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Political Science Major 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 2326	Premodern 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 from the following range:		8
POLS 3300 to POLS 5999		
Political Science Electives		
Complete two courses from the following range:		8
POLS 2000 to POLS 5999		
Methodology		
POLS 2399	Research Methods in Political Science	4
or COMM 2301	Communication Research Methods	

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. 791).

- American Political Institutions
- Campaigns and Elections
- Identity, Culture, and Politics
- Law and Legal Studies
- Public Policy

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 1310	Classical Foundations of Communication	
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	
COMM 1414	Great Speakers and Speeches 1, 1630–1930	
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 3331	Argumentation and Debate
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 3500	Environmental Issues, Communication, and the Media
COMM 3532	Theories of Conflict and Negotiation
COMM 3610	Communication, Politics, and Social Change
COMM 4102	Health Communication Campaigns
COMM 4533	Consultation Skills
COMM 4602	Contemporary Rhetorical Theory
COMM 4603	Advocacy Workshop
COMM 4625	Online Communities
COMM 4631	Crisis Communication and Image Management
COMM 4901	Seminar in Communications
COMM 4918	Special Topics in Communication Studies
COMM 4992	Directed Study
COMM 4994	Internship in Communication

Integrative Requirements

Code	Title	Hours
Integrative Courses		
POLS 3320 or COMM 3320	Politics and Mass Media Political Communication	4
POLS 2333	Politics and Film	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 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4603	Advocacy Workshop	
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:		
POLS 2350	State and Local Politics	16
POLS 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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:		
POLS 2345	Urban Policies and Politics	8
POLS 2355	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415 or POLS 3418	Ethnic Political Violence Nationalism	4
<i>Electives</i>		
Complete three of the following:		
POLS 2333	Politics and Film	12
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	

POLS 3320	Politics and Mass Media
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

Political Science and Economics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Requirements for BA

All undergraduate students are required to complete the BA language requirements (p. 37).

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
Political Theory		
Complete one of the following:		4
POLS 2330	American Political Thought	
POLS 2326	Premodern 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 2355	Intergovernmental Relations	
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. 793).

- American Political Institutions
- Campaigns and Elections
- International Relations and Diplomacy
- Public Policy

Economics Major 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 of the following. At least one course must be at or above the intermediate level: 12

ECON 1230	Healthcare and Medical Economics	
ECON 1240	Economics of Crime	
ECON 1260	Contested Issues in the U.S. Economy	
ECON 1270	Economic Status of Ethnic Minorities	
ECON 1290	History of the Global Economy	
ECON 3404	International Food Economics and Policy	
ECON 3415	Poverty and Income	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3424	Law and Economics	
ECON 3440	Public Finance	
ECON 3461	Government and Business	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	

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	

Quantitative Techniques/Statistics

Complete either of the statistics and departmental elective combinations listed below:

Code	Title	Hours
Combination A		
<i>Statistics</i>		
POLS 2400	Quantitative Techniques	4
<i>Economics</i>		
Complete one of the following:		4
ECON 3404	International Food Economics and Policy	
ECON 3415	Poverty and Income	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 3461	Government and Business	
ECON 3490	Public Choice Economics	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	

Code	Title	Hours
Combination B		
<i>Statistics</i>		
ECON 2350	Statistics	4
<i>Political Science</i>		
Complete one course from the following range:		4

POLS 2401 to POLS 5999

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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
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 3409	Global Governance
POLS 3435	Politics and Governance of Europe and the European Union
POLS 3445	Politics in Central and Eastern Europe
POLS 3470	Arab-Israeli Conflict

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

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

POLS 2326	4 POLS intermediate/advanced undergraduate elective	4		
ECON 2316	4 Elective	4		
ECON undergraduate elective	4 Elective	4		
	16	16	0	0

Year 4

Fall	Hours Spring	Hours
ECON 3560	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 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 2400	Quantitative Techniques	4
Political Theory		
Complete one of the following:		4
POLS 2326	Premodern Political Thought	
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. 797).

Code	Title	Hours
Political Science Electives		
Complete four Political Science courses at or above POLS 2300		16

- Concentration in Campaigns and Elections
- Concentration in Comparative Politics
- Concentration in Identity, Culture and Politics
- Concentration in International Relations and Diplomacy
- Concentration in Security Studies

International Affairs Major Requirements

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, one of which must be numbered 2000 or above:¹ 6-8

INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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	
ANTH 3415	Anthropology of Travel and Tourism	
COMM 2303	Global and Intercultural Communication	

MSCR 2325	Global Media	
COMM 5240	Global and Intercultural Media	
CLTR 1515	Comparative Analysis of the Lusophone World and Culture	
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 1110	Introduction to World History	
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	
HIST 2312	Global Migration	
HIST 2315	Approaches to World History	
HIST 2317	Comparative Urban Histories	
HIST 2398	Radicals, Terrorists, and Insurgents	
HIST 3412	Global Environmental History	
HIST 3452	Global Chinese Migration	
HUSV 4920	International Human Services	
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 1127	Introduction to World Music	
MUSC 1140	Global Pop Music	
PHIL 1155	Introduction to Human Rights	
PHIL 2302	Philosophical Problems of War and Peace	
PHIL 5001	Global Justice	
PHIL 5003	Ethics, Justice, and Global Climate Change	
PHTH 5230	Global Health	
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

¹ Comparative Politics (POLS 1155) and International Relations (POLS 1160) are not permitted to count in the Global Dynamics area for the Political Science and International Affairs, BA as they are required in other areas of the major.

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 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4
ANTH 4510	Anthropology of Africa	4
or INTL 4510	Anthropology of Africa	
ENTR 3306	Global Entrepreneurship	4
ENTR 3308	Business Economic History of South Africa	4
HIST 1180	African History	4
HIST 2390	Africa and the World in Early Times	4
HIST 2397	Modern Africa	4
MUSC 1128	Music of Africa	4

Asia		
ANTH 4350	Ethnography of Southeast Asia	4
or INTL 4350	Ethnography of Southeast Asia	
ASNS 1150	East Asian Studies	4
ASNS 4910	Issues in Modern and Contemporary Asia	4
CLTR 1500	Modern Chinese History and Culture	4
CLTR 1506	Introduction to Chinese Popular Culture	4
CLTR 1700	Introduction to Japanese Pop Culture	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4
HIST 1189	Introduction to South Asian History	4
HIST 1252	Japanese Literature and Culture	4
HIST 1253	History of Vietnam Wars	4
HIST 1254	Mao's China and After	4
HIST 1500	Modern Chinese History and Culture	4
HIST 2351	Modern Japan	4
HIST 2352	Dictators and Democracy in Japan and Korea	4
HIST 3452	Global Chinese Migration	4
HIST 4942	East Asian Cultural History Abroad	4
POLS 3485	China: Governance and Foreign Policy	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4
PHIL 1290	Chinese Philosophy and Religion	4
PHIL 2394	Chinese Buddhism	4
PHIL 2395	Japanese Buddhism	4
PHIL 4545	Religion and Politics in South Asia	4
Europe		
CLTR 1501	Introduction to French Culture	4
CLTR 1503	Introduction to Italian Culture	4
CLTR 1504	Introduction to Spanish Culture	4
CLTR 2280	French Film and World War II: The German Occupation of France	4
ECON 1293	European Economic History	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4
HIST 1270	Ancient Greece	4
HIST 1271	Ancient Rome	4
HIST 2280	Hitler, Germany, and the Holocaust	4
HIST 2371	Europe 1870–1921	4
HIST 2372	Gender and Society in Modern Europe	4
HIST 2376	The British Empire	4
HIST 4946	Independent Field Research Abroad: Central Europe	4
POLS 3435	Politics and Governance of Europe and the European Union	4
POLS 4917	Model European Union	4
SOCL 4535	European Union: Social and Political	4
Latin America		
AFAM 2301	Foundations of Black Culture 2	4
AFAM 2345	The Black Experience in the Caribbean	4
AFAM 4507	Afro-Cuban Culture—International Study	4
ANTH 4500	Latin American Society and Development	4
or INTL 4500	Latin American Society and Development	

CLTR 1505	Introduction to Latin American Culture	4
CLTR 1508	Cuban History and Culture through Film	4
CLTR 1509	An Introduction to Afro-Cuban Culture	4
CLTR 1240	Latin American Film	4
CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 4508	Cuban History through Film—International Study	4
ENTR 3316	Microfinance and Economic Development in Latin America	4
ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
ENTR 3326	Sustainability in the Latin American Business Environment	4
ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1187	Introduction to Latin American History	4
HIST 1260	Modern Latin America	4
LACS 1220	Latino, Latin American, and Caribbean Studies	4
LITR 1260	Caribbean Literature and Culture	4
LITR 4655	Latin American Literature	4
POLS 3475	Government and Politics in Latin America	4
Middle East		
INTL 1160	Middle East Studies	4
INTL 2100	Modern Israel	4
INTL 2200	America and the Middle East	4
INTL 2360	Human Rights in the Middle East	4
INTL 2400	Politics of Islam and Gender	4
INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
CLTR 1502	Introduction to Arabic Culture	4
ECON 1292	Economic History of the Middle East	4
HIST 1185	Introduction to Middle Eastern History	4
HIST 1290	Modern Middle East	4
HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
HIST 4945	North African History Abroad	4
JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
POLS 3465	Government and Politics in the Middle East	4
POLS 3470	Arab-Israeli Conflict	4
POLS 4915	Model Arab League	4
PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4
Russia		
HIST 1285	Introduction to Russian Civilization	4
HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4

LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215	Society and Culture in Russia	4
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.

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	

International Experiential Learning

Complete at least one “international semester” (one full semester) via study abroad, international internship, or international co-op, or complete two summer half semesters via study abroad.

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
<i>Theoretical Requirement</i>		
Complete one of the following:		4
POLS 2370	Religion and Politics	

POLS 3415	Ethnic Political Violence
POLS 3418	Nationalism
POLS 3427	Civil-Military Relations
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics

Regional Requirements

Complete two of the following: 8

POLS 3435	Politics and Governance of Europe and the European Union
POLS 3445	Politics in Central and Eastern Europe
POLS 3450	Government and Politics in Russia
POLS 3460	Contemporary Government and Politics in Africa
POLS 3465	Government and Politics in the Middle East
POLS 3475	Government and Politics in Latin America
POLS 3480	Government and Politics in Japan
POLS 3485	China: Governance and Foreign Policy

Experiential/Practicum Requirement

Complete one of the following: 4

POLS 4915	Model Arab League
POLS 4917	Model European Union
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 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	

Electives

Complete three of the following: 12

POLS 2333	Politics and Film
POLS 2336	Politics and the Arts
POLS 2360	Politics of Poverty
POLS 2368	Music and Politics
POLS 2370	Religion and Politics
POLS 2375	Gender and Politics
POLS 2380	Latino Politics in the United States
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
POLS 3320	Politics and Mass Media
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 4917	Model European Union
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 3409	Global Governance
POLS 3435	Politics and Governance of Europe and the European Union
POLS 3445	Politics in Central and Eastern Europe
POLS 3470	Arab-Israeli Conflict

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
------	-------	-------

Complete four of the following: 16

POLS 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3412	Homeland Security Policy and Politics
POLS 3415	Ethnic Political Violence
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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Requirements for BA

All undergraduate students are required to complete the BA language requirements (p. 37).

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 2326	Premodern 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. 800).

- Campaigns and Elections
- Identity, Culture, and Politics
- International Relations and Diplomacy
- Law and Legal Studies
- Public Policy

Philosophy Requirements

Code	Title	Hours
Philosophy Required Courses		
PHIL 1115 or PHIL 1215	Introduction to Logic Symbolic Logic	4
PHIL 2325 or POLS 2325	Ancient Philosophy and Political Thought Ancient Philosophy and Political Thought	4
PHIL 2330	Modern Philosophy	4
Advanced Philosophy Elective		
Complete one of the following:		4
PHIL 3435	Moral Philosophy	
PHIL 3436	History of Modern Moral Philosophy	
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
PHIL 4535	Philosophy of Mind	

Additional Electives

Complete four additional electives in philosophy or religion. 16

Philosophy Seminar

Complete one of the following: 4

PHIL 4500	Theory of Knowledge
PHIL 4505	Metaphysics
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 4901	Topics in Philosophy Seminar
PHIL 4902	Great Philosophers Seminar
PHIL 4903	Seminar in Religion
PHIL 5001	Global Justice

Integrative Requirement

Code	Title	Hours
Complete the following:		
PHIL 4525 or PHIL 5001	Philosophy of Social Science 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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3415 or POLS 3418	Ethnic Political Violence Nationalism	4
Electives		
Complete three of the following:		12
POLS 2333	Politics and Film	

POLS 2336	Politics and the Arts
POLS 2360	Politics of Poverty
POLS 2368	Music and Politics
POLS 2370	Religion and Politics
POLS 2375	Gender and Politics
POLS 2380	Latino Politics in the United States
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
POLS 3320	Politics and Mass Media
POLS 3324	Law and Society

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
<i>Core Courses</i>		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy
POLS 2390	Science, Technology, and Public Policy
POLS 2395	Environmental Politics and Policy
POLS 3315	Interest Groups and Public Policy
POLS 3402	Survey Research and Polling
POLS 3410	Nontraditional Security Issues
POLS 3412	Homeland Security Policy and Politics
POLS 3425	U.S. Foreign Policy
POLS 4948	Community-Based Research Practicum

Sociology 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Requirements for BA

All undergraduate students are required to complete the BA language requirements (p. 37).

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	Survey Research and Polling	
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. 802).

- 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

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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	

POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
------	-------	-------

Core Course

POLS 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	

Electives

Complete three of the following: 12

POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
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 2385	U.S. Health and Welfare Policy
POLS 2390	Science, Technology, and Public Policy
POLS 2395	Environmental Politics and Policy
POLS 3315	Interest Groups and Public Policy
POLS 3402	Survey Research and Polling
POLS 3410	Nontraditional Security Issues
POLS 3412	Homeland Security Policy and Politics
POLS 3425	U.S. Foreign Policy
POLS 4948	Community-Based Research Practicum

POLS 4942	Internship in Politics
POLS 4944	Student Leadership Practicum
POLS 4948	Community-Based Research Practicum

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.

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. 803).

- American Political Institutions
- Campaigns and Elections
- Comparative Politics
- Identity, Culture, and Politics
- International Relations and Diplomacy
- Law and Legal Studies
- Public Policy
- Security Studies

Political Science Major Credit Requirement

Complete 60 semester hours in the major.

Upper-Division Electives

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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Required Courses		

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.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Introduction to College

Complete "Introduction to College" for your major.

Political Science Major Requirements

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 2326	Premodern 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

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 4917	Model European Union	
POLS 4918	Model NATO	

With advisor approval, a co-op or internship may be substituted in place of POLS 4947.

POLS 3160	Campaign Strategy	4
POLS 4947	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
------	-------	-------

Theoretical Requirement

Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3415	Ethnic Political Violence	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
POLS 3490	Democracy in Comparative Politics	

Regional Requirements

Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
POLS 3450	Government and Politics in Russia	
POLS 3460	Contemporary Government and Politics in Africa	
POLS 3465	Government and Politics in the Middle East	
POLS 3475	Government and Politics in Latin America	
POLS 3480	Government and Politics in Japan	
POLS 3485	China: Governance and Foreign Policy	

Experiential/Practicum Requirement

Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
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 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	

Electives

Complete three of the following:		12
POLS 2333	Politics and Film	

POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
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 4917	Model European Union	
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 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
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	

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 division elective	4
Elective	4 Elective	4
	16	16

Total Hours: 130

Biology 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.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Biology Major Requirements

Code	Title	Hours
Introduction to College		
BIOL 1000 or POLS 1000	Biology at Northeastern or Political Science at Northeastern	1
Biology		
<i>Foundations</i>		
BIOL 1107 and BIOL 1108	Foundations of Biology and Lab for BIOL 1107	5
<i>Inquiries</i>		
BIOL 2299	Inquiries in Biological Sciences	4
<i>Genetics</i>		
BIOL 2301 and BIOL 2302	Genetics and Molecular Biology and Lab for BIOL 2301	5
<i>Techniques</i>		
BIOL 2309	Techniques in Biology: An Inquiry-Based Lab	4
<i>Biochemistry</i>		
BIOL 2323 and BIOL 2324	and	5
<i>Organismal and Population Biology</i>		
Complete one of the following:		4-5
BIOL 2321 and BIOL 2322	Microbiology and Lab for BIOL 2321	
BIOL 2327	Human Parasitology	
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 2618 and EEMB 2619	Vertebrate Zoology and Lab for EEMB 2618	
EEMB 2700 and EEMB 2701	Marine Biology and Lab for EEMB 2700	
Mathematics		
MATH 1251	Calculus and Differential Equations for Biology 1	4
Chemistry		
<i>General Chemistry</i>		

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

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

Political Science Major 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 2326	Premodern Political Thought	
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 2385	U.S. Health and Welfare Policy	
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	
POLS 3409	Global Governance	
POLS 3412	Homeland Security Policy and Politics	
POLS 3410	Nontraditional Security Issues	

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 Course

Note: Science, Technology, and Public Policy (POLS 2390) cannot be used both as an integrative course and as an elective above.

Code	Title	Hours
POLS 2390	Science, Technology, and Public Policy	4
or POLS 2395	Environmental Politics and Policy	

Program Requirement

128 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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	

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 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.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 1600	Crimes against Humanity	
CRIM 1700	Crime, Media, and Politics	
Survey Elective		
Complete one of the following:		4
CRIM 3010 to CRIM 3500		
CRIM 3900	Topics in Criminal Justice and Criminology	
System-Wide Elective		
Complete one of the following:		4
CRIM 4010	Gender, Crime, and Justice	
CRIM 4020	Race, Crime, and Justice	
CRIM 4030	Criminal Justice Organization and Management	
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 2326	Premodern Political Thought	
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.

Code	Title	Hours
Option A		
<i>Research Methods</i>		
CRIM 3600	Criminal Justice Research Methods	4
CRIM 3700	Criminal Justice Statistics	4
<i>Criminal Justice Electives</i>		
Complete two courses in the following range:		8
CRIM 4001 to CRIM 4999		
<i>Political Science Electives</i>		
Complete five courses in the following:		20
POLS 2300 to POLS 5999		
Option B		
<i>Research Methods</i>		
POLS 2399	Research Methods in Political Science	4
POLS 2400	Quantitative Techniques	4
<i>Criminal Justice Electives</i>		
Complete three courses in the following:		12
CRIM 4001 to CRIM 4999		
<i>Political Science Electives</i>		
Complete four courses in the following:		20
POLS 2300 to POLS 5999		
Option C		
<i>Research Methods</i>		
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	
<i>Criminal Justice Electives</i>		
Complete two courses from the following range:		8
CRIM 4001 to CRIM 4999		
<i>Political Science Electives</i>		
Complete four courses in the following:		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. 809).

- American Political Institutions
- Campaigns and Elections
- Identity, Culture, and Politics
- Law and Legal Studies
- Security Studies

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 4110	Legal Philosophy	
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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	

Electives

Complete three of the following: 12		
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
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 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	
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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Political Science Major Requirements

Code	Title	Hours
Introduction to College		
POLS 1000 or BUSN 1102	Political Science at Northeastern Personal Skill Development for Business	1
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 2326	Premodern 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	
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		
Statistics		
POLS 2400 or MGSC 2301	Quantitative Techniques Business Statistics	4

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. 811).

- American Political Institutions
- Identity, Culture, and Politics
- Law and Legal Studies

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

Additional Requirements

Code	Title	Hours
Mathematics		
MATH 1231 or MATH 1341	Calculus for Business and Economics Calculus 1 for Science and Engineering	4
Economics		
ECON 1115 or ECON 1116	Principles of Macroeconomics Principles of Microeconomics	4
Computer Science		
CS 1100	Computer Science and Its Applications	4
Co-op Preparation		
BUSN 1103 or EESH 2000	Professional Development for Business Co-op Professional Development for Co-op	1
Capstone Requirement		
POLS 4701 or STRT 4501	Political Science Senior Capstone Strategy in Action	4

Business Concentration

Complete one of the following business concentrations. Requirements for the concentrations are listed below (p. 811).

- Accounting
- Entrepreneurship and Innovation
- Finance
- Management
- Management Information Systems
- Marketing
- Supply Chain Management

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	Business, Economics, and History of Hispaniola and Latin America	
ENTR 3328	Field Research in Sustainable Business	
ENTR 3338	Field Research in Sustainable Energy in Iceland	
ENTR 3346	Family Business in Italy	
ENTR 4510	New Venture Laboratory 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 4506	Advanced Studies in Social Enterprise	

Electives

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 3210	Social Impact Investing: Connecting Compassion and Capital	
ENTR 3212	Innovation for Social Change	

ENTR 3217	Global Family Business Leadership	
ENTR 3219	Microfinance: Fostering Entrepreneurship in the Developing World	
ENTR 3220	International Entrepreneurship and Innovation	
ENTR 3305	Business Modeling for Entrepreneurs	
ENTR 3306	Global Entrepreneurship	
ENTR 3316	Microfinance and Economic Development in Latin America	
ENTR 3320	Base of Pyramid Innovation	
ENTR 3326	Sustainability in the Latin American Business Environment	
ENTR 3330	Lean Design and Development for Entrepreneurs	
ENTR 3336	Resource Management and Renewable Energy in Iceland	
ENTR 3348	Family Business: A Global Perspective	
ENTR 3401	Management of Operations and Growth in Small- and Medium-Sized Enterprises	
ENTR 3403	Managing Operations in a Technology-Based Startup Firm	
ENTR 3410	Entrepreneurship and Intrapreneurship in Innovation-Driven Markets	
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	

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 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 4518	Risk Management and Insurance	
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		
Complete three of the following:		12
MGMT 3302	Negotiating in Business	
MGMT 3330	Developing Leaders for Global Sustainability	
MGMT 3340	Managing Healthcare Organizations: Critical Challenges and New Approaches	
MGMT 3420	Managing Human Capital	
MGMT 3435	Social Networks and Organizations	
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	
MGMT 4603	Leadership Seminar	
ENTR 2215	Understanding Family Enterprise	

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 3305	Information Resource Management	
MISM 3404	Data Communications	
MISM 3406	Introduction to Web Design, Practices, and Standards	
MISM 3515	Data Mining for Business	
MISM 4512	Special Topics in Information Technology Management	
ACCT 3403	Accounting Information Systems	
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 3301	Marketing Management	4

MKTG 3401	Marketing Research	4
Electives		
Complete two of the following:		8
MKTG 2301	Marketing and Society	
MKTG 3501	Marketing Analytics	
MKTG 4310	Retailing	
MKTG 4420	Sales Management	
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	
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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
Core Course		
POLS 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	
Electives		
Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	

POLS 2368	Music and Politics
POLS 2370	Religion and Politics
POLS 2375	Gender and Politics
POLS 2380	Latino Politics in the United States
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
POLS 3320	Politics and Mass Media
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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Political Science Major 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 2326	Premodern 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 from the following range:		8
POLS 3300 to POLS 5999		
Political Science Electives		
Complete two courses from the following range:		8
POLS 2000 to POLS 5999		

Methodology		
POLS 2399	Research Methods in Political Science	4
or COMM 2301	Communication Research Methods	

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. 814).

- American Political Institutions
- Campaigns and Elections
- Identity, Culture, and Politics
- Law and Legal Studies
- Public Policy

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 1310	Classical Foundations of Communication	
COMM 1331	Legal Argumentation, Advocacy, and Citizenship	
COMM 1412	Social Movement Communication	
COMM 1414	Great Speakers and Speeches 1, 1630–1930	
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 3331	Argumentation and Debate	
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 3500	Environmental Issues, Communication, and the Media	
COMM 3532	Theories of Conflict and Negotiation	
COMM 3610	Communication, Politics, and Social Change	
COMM 4102	Health Communication Campaigns	
COMM 4533	Consultation Skills	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4603	Advocacy Workshop	
COMM 4625	Online Communities	

COMM 4631	Crisis Communication and Image Management
COMM 4901	Seminar in Communications
COMM 4918	Special Topics in Communication Studies
COMM 4992	Directed Study
COMM 4994	Internship in Communication

Integrative Requirements

Code	Title	Hours
Integrative Courses		
POLS 3320 or COMM 3320	Politics and Mass Media Political Communication	4
POLS 2333	Politics and Film	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 4533	Consultation Skills	
COMM 4534	Organizational Communication Training and Development	
COMM 4602	Contemporary Rhetorical Theory	
COMM 4603	Advocacy Workshop	
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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415 or POLS 3418	Ethnic Political Violence Nationalism	4
<i>Electives</i>		
Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy
POLS 2390	Science, Technology, and Public Policy
POLS 2395	Environmental Politics and Policy
POLS 3315	Interest Groups and Public Policy
POLS 3402	Survey Research and Polling
POLS 3410	Nontraditional Security Issues
POLS 3412	Homeland Security Policy and Politics
POLS 3425	U.S. Foreign Policy
POLS 4948	Community-Based Research Practicum

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. 816).

- American Political Institutions
- Campaigns and Elections
- International Relations and Diplomacy
- Public Policy

Political Science and Economics, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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
Political Theory		
Complete one of the following:		4
POLS 2330	American Political Thought	
POLS 2326	Premodern 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 2355	Intergovernmental Relations	
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		

Economics Major 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 3560	Applied Econometrics	4
Economics Electives		
Complete three of the following. At least one course must be numbered ECON 3000 or above:		12
ECON 1230	Healthcare and Medical Economics	
ECON 1240	Economics of Crime	
ECON 1260	Contested Issues in the U.S. Economy	
ECON 1270	Economic Status of Ethnic Minorities	
ECON 1290	History of the Global Economy	
ECON 3404	International Food Economics and Policy	
ECON 3415	Poverty and Income	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3424	Law and Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 3461	Government and Business	
ECON 3490	Public Choice Economics	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	

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	

Quantitative Techniques/Statistics

Complete either of the statistics and departmental elective combinations listed below:

Code	Title	Hours
Combination A		
<i>Statistics</i>		
POLS 2400	Quantitative Techniques	4
<i>Economics</i>		
Complete one of the following:		4
ECON 3404	International Food Economics and Policy	
ECON 3415	Poverty and Income	
ECON 3420	Urban Economic Issues	
ECON 3423	Environmental Economics	
ECON 3425	Energy Economics	
ECON 3440	Public Finance	
ECON 3461	Government and Business	
ECON 3490	Public Choice Economics	
ECON 4634	Comparative Economics	
ECON 4635	International Economics	

Code	Title	Hours
Combination B		
<i>Statistics</i>		
ECON 2350	Statistics	4
<i>Political Science</i>		
Complete one course from the following range:		4
POLS 2401 to POLS 5999		

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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
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 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	

POLS 4948 Community-Based Research Practicum

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
POLS 2326	4 POLS intermediate/advanced undergraduate elective	4		
ECON 2316	4 Elective	4		
ECON undergraduate elective	4 Elective	4		
	16	16	0	0

Year 4

Fall	Hours Spring	Hours
ECON 3560	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 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 2326	Premodern 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. 818).

- Campaigns and Elections
- Identity, Culture, and Politics
- International Relations and Diplomacy
- Law and Legal Studies
- Public Policy

Philosophy Requirements

Code	Title	Hours
------	-------	-------

Philosophy Required Courses

PHIL 1115 or PHIL 1215	Introduction to Logic Symbolic Logic	4
PHIL 2325 or POLS 2325	Ancient Philosophy and Political Thought Ancient Philosophy and Political Thought	4
PHIL 2330	Modern Philosophy	4

Advanced Philosophy Elective

Complete one of the following:		4
PHIL 3435	Moral Philosophy	
PHIL 3436	History of Modern Moral Philosophy	
PHIL 4500	Theory of Knowledge	

PHIL 4505	Metaphysics	
PHIL 4535	Philosophy of Mind	
Additional Electives		
Complete four additional electives in philosophy or religion.		16
Philosophy Seminar		
Complete one of the following:		4
PHIL 4500	Theory of Knowledge	
PHIL 4505	Metaphysics	
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 4901	Topics in Philosophy Seminar	
PHIL 4902	Great Philosophers Seminar	
PHIL 4903	Seminar in Religion	
PHIL 5001	Global Justice	

Integrative Requirement

Code	Title	Hours
Complete the following:		
PHIL 4525 or PHIL 5001	Philosophy of Social Science 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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415 or POLS 3418	Ethnic Political Violence Nationalism	4

Electives

Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
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 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
POLS 3470	Arab-Israeli Conflict	

CONCENTRATION IN LAW AND LEGAL STUDIES

Code	Title	Hours
Complete four of the following:		
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy
POLS 2390	Science, Technology, and Public Policy
POLS 2395	Environmental Politics and Policy
POLS 3315	Interest Groups and Public Policy
POLS 3402	Survey Research and Polling
POLS 3410	Nontraditional Security Issues
POLS 3412	Homeland Security Policy and Politics
POLS 3425	U.S. Foreign Policy
POLS 4948	Community-Based Research Practicum

Political Science, BA/MA

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree.

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Introduction to College

Complete "Introduction to College" for your major.

Political Science Major Requirements

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 2326	Premodern 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.

Courses

Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4942	Internship in Politics	
POLS 4944	Student Leadership Practicum	
POLS 4948	Community-Based Research Practicum	

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.

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. 819).

- American Political Institutions
- Campaigns and Elections
- Comparative Politics
- Identity, Culture, and Politics
- International Relations and Diplomacy
- Law and Legal Studies
- Public Policy
- Security Studies

Political Science Major Credit Requirement

Complete 52 semester hours in the major.

Graduate Courses Taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

POLS 7202	Quantitative Techniques	3
Complete three courses from the following range:		9
POLS 5100 to POLS 7978		

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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
<i>Theoretical Requirement</i>		
Complete one of the following: 4		
POLS 2370	Religion and Politics	
POLS 3415	Ethnic Political Violence	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
POLS 3490	Democracy in Comparative Politics	
<i>Regional Requirements</i>		
Complete two of the following: 8		
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
POLS 3450	Government and Politics in Russia	
POLS 3460	Contemporary Government and Politics in Africa	
POLS 3465	Government and Politics in the Middle East	
POLS 3475	Government and Politics in Latin America	

POLS 3480	Government and Politics in Japan	
POLS 3485	China: Governance and Foreign Policy	
<i>Experiential/Practicum Requirement</i>		
Complete one of the following: 4		
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	
<i>Electives</i>		
Complete three of the following: 12		
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following: 4		
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
<i>Core Courses</i>		
Complete three of the following: 12		
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	
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, BA/MPA

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree.

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Introduction to College

Complete "Introduction to College" for your major.

Political Science Major Requirements

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 2326	Premodern 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.

Courses

Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4942	Internship in Politics	
POLS 4944	Student Leadership Practicum	
POLS 4948	Community-Based Research Practicum	

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.

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. 822).

- American Political Institutions
- Campaigns and Elections
- Comparative Politics
- Identity, Culture and Politics
- International Relations and Diplomacy
- Law and Legal Studies
- Public Policy
- Security Studies

Political Science Major Credit Requirement

Complete 52 semester hours in the major.

Graduate Courses taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

LPSC 7305	Research and Statistical Methods	3
or POLS 7202	Quantitative Techniques	
PPUA 6500	Principles of Public Administration	3
Complete up to three of the following:		9
PPUA 6502	Economic Institutions and Analysis	
PPUA 6503	Public Personnel Administration	
PPUA 6504	Organizational Theory and Management	
PPUA 6505	Public Budgeting and Financial Management	

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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
<i>Theoretical Requirement</i>		
Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3415	Ethnic Political Violence	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
POLS 3490	Democracy in Comparative Politics	
<i>Regional Requirements</i>		
Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
POLS 3450	Government and Politics in Russia	
POLS 3460	Contemporary Government and Politics in Africa	
POLS 3465	Government and Politics in the Middle East	
POLS 3475	Government and Politics in Latin America	
POLS 3480	Government and Politics in Japan	
POLS 3485	China: Governance and Foreign Policy	
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	

Electives

Complete three of the following:	12
POLS 2333	Politics and Film
POLS 2336	Politics and the Arts
POLS 2360	Politics of Poverty
POLS 2368	Music and Politics
POLS 2370	Religion and Politics
POLS 2375	Gender and Politics
POLS 2380	Latino Politics in the United States
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
POLS 3320	Politics and Mass Media
POLS 3324	Law and Society

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
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 3409	Global Governance
POLS 3435	Politics and Governance of Europe and the European Union
POLS 3445	Politics in Central and Eastern Europe
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy
POLS 2390	Science, Technology, and Public Policy
POLS 2395	Environmental Politics and Policy
POLS 3315	Interest Groups and Public Policy
POLS 3402	Survey Research and Polling
POLS 3410	Nontraditional Security Issues
POLS 3412	Homeland Security Policy and Politics
POLS 3425	U.S. Foreign Policy
POLS 4948	Community-Based Research Practicum

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	
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, BA/Security and Resilience Studies, MS**Program Requirements**

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Introduction to College

Complete "Introduction to College" for your major.

Political Science Major Requirements

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 2326	Premodern 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.

Courses

Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4942	Internship in Politics	
POLS 4944	Student Leadership Practicum	
POLS 4948	Community-Based Research Practicum	

Co-op or Study Abroad

Complete one cooperative education experience or one study-abroad experience.

Political Science Electives

Note: You may use four courses from the elective area to fulfill a concentration.

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. 824).

- American Political Institutions
- Campaigns and Elections
- Comparative Politics
- Identity, Culture and Politics
- International Relations and Diplomacy
- Law and Legal Studies
- Public Policy

- Security Studies

Political Science Undergraduate Major Credit Requirement

Complete 52 semester hours in the major.

Graduate Courses taken as an Undergraduate Student

POLS 7341	Security and Resilience Policy	3
POLS 7342	Security and Resilience Studies Toolkit	1
POLS 7347	Controversial Issues in Security Studies	1
POLS 7704	Critical Infrastructure Resilience	4
POLS 7369	International Security	3
Complete an additional graduate course to count toward the graduate program.		3

Program Requirements

128 total semester hours required

Minimum 3.000 GPA required in all graduate courses.

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

CONCENTRATION IN CAMPAIGNS AND ELECTIONS

Code	Title	Hours
Complete two of the following:		8
POLS 2345	Urban Policies and Politics	
POLS 2355	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

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 one of the following:		4
POLS 3160	Campaign Strategy	4
POLS 4947	Campaign and Elections Practicum	4

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
Complete one of the following:		4
<i>Theoretical Requirement</i>		

POLS 2370	Religion and Politics
POLS 3415	Ethnic Political Violence
POLS 3418	Nationalism
POLS 3427	Civil-Military Relations
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics

Regional Requirements

Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
POLS 3450	Government and Politics in Russia	
POLS 3460	Contemporary Government and Politics in Africa	
POLS 3465	Government and Politics in the Middle East	
POLS 3475	Government and Politics in Latin America	
POLS 3480	Government and Politics in Japan	
POLS 3485	China: Governance and Foreign Policy	

Experiential/Practicum Requirement

Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	
<i>Electives</i>		
Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	

POLS 4938	Dialogue of Civilizations: International Politics Abroad	
<i>Core Courses</i>		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	

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

POLS 7341	3	POLS 7369	3
POLS 7342	1	Specializatio elective	3
POLS 7347	1		
POLS 7704	4		
		17	14

Total Hours: 129

Plan of Study

Four Years, 1 Co-op (option 1)

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	Hours
POLS 1000	1	POLS 1150	4	Elective	4	Vacation		
POLS 1155	4	POLS 1160	4	Elective	4			
ENGW 1111	4	BA Language Requirement #1	4					
Elective	4	Elective	4					
Elective	4							
		17	16	8				0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	Hours
POLS 2399	4	EESH 2000	1	Elective	4	Co-op		
POLS 2400	4	Political Science Theory course	4	Elective	4			
BA Language Requirement #2	4	Political Science elective #1	4					
Elective	4	BA Language Requirements #3	4					
Elective	4	Elective	4					
		16	17	8				0

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	Hours
Co-op		Political Science elective #2	4	Vacation	4	Vacation		
		Political Science elective #3	4					
		Advanced Writing in the Disciplines	4					
		Elective	4					
		0	16	0				0

Year 4

Fall	Hours	Spring	Hours	Hours
Elective	4	Elective	4	
Elective	4	POLS 4701	4	

Four Years, 1 Co-op (option 2)

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	Hours
POLS 1000	1	POLS 1150	4	Elective	4	Vacation		
POLS 1155	4	POLS 1160	4	Elective	4			
ENGW 1111	4	BA Language Requirement #1	4					
Elective	4	Elective	4					
Elective	4							
		17	16	8				0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	Hours
POLS 2399	4	Political Science Theory course	4	Elective	4			
POLS 2400	4	Political Science elective #1	4	Elective	4			
BA Language Requirement #2	4	BA Language Requirements #3	4					
Elective	4	Elective	4					
		16	16	8				

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours	Hours
EESH 2000	1	Co-op		Co-op		Vacation		
Political Science elective #2	4							
Political Science Elective #3	4							
Advanced Writing in the Disciplines	4							
Elective	4							
		17	0	0				0

Year 4

Fall	Hours	Spring	Hours	Hours
Elective	4	Elective	4	
Elective	4	POLS 4701	4	
POLS 7341	3	POLS 7369	3	
POLS 7342	1	Specializatio elective	3	

POLS 7347	1
POLS 7704	4
	17
	14

Total Hours: 129

Fours Years, 2 Co-ops

Year 1

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1000	1	POLS 1150	4	Elective	4	Vacation	
POLS 1155	4	POLS 1160	4	Elective	4		
ENGW 1111	4	Elective	4				
Elective	4	BA Language Requirement #1	4				
Elective	4						
	17		16		8		0

Year 2

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
EESH 2000	1	Co-op		Co-op		Elective	4
POLS 2400	4					Elective	4
Elective	4						
POLS 2399	4						
BA Language Requirement #2	4						
	17		0		0		8

Year 3

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Political Science Theory course	4	Co-op		Co-op		Elective	4
Political Science elective #1	4					Elective	4
Political Science elective #2	4						
BA Language Requirement #3	4						
	16		0		0		8

Year 4

Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Advanced Writing in the Disciplines	4	Political Science Elective #3	4	Elective	4		
POLS Elective #3	4	POLS 4701	4	Elective	4		
POLS 7341	3	POLS 7369	3				
POLS 7342	1	Specialization elective	3				
POLS 7347	1						

POLS 7704	4
	17
	14
	8

Total Hours: 129

Political Science, BA/JD

Program Requirements

Students in the 3+3 Program begin their first-year law school courses during their fourth year of study and apply those credits toward both their bachelor's degree and law degree. The program is available only by invitation.

Political Science, BS/MA

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree.

Introduction to College

Complete "Introduction to College" for your major.

Political Science Major Requirements

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:		
POLS 2330	American Political Thought	4
POLS 2326	Premodern Political Thought	4
POLS 2328	Modern Political Thought	4
POLS 2332	Contemporary Political Thought	4

Political Science Capstone

Complete one of the following:		
POLS 4701	Political Science Senior Capstone	4

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.

Courses

Complete one of the following: 4

POLS 4910	Model United Nations
-----------	----------------------

POLS 4915	Model Arab League
-----------	-------------------

POLS 4917	Model European Union
-----------	----------------------

POLS 4918	Model NATO
-----------	------------

POLS 4942	Internship in Politics
-----------	------------------------

POLS 4944	Student Leadership Practicum
-----------	------------------------------

POLS 4948	Community-Based Research Practicum
-----------	------------------------------------

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.

Complete eight political science electives with a minimum of four 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. 828).

- American Political Institutions
- Campaigns and Elections
- Comparative Politics
- Identity, Culture and Politics
- International Relations and Diplomacy
- Law and Legal Studies
- Public Policy
- Security Studies

Political Science Major Credit Requirement

Complete 60 semester hours in the major.

Graduate Courses taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

POLS 7202	Quantitative Techniques	3
-----------	-------------------------	---

Complete three courses from the following range: 9

POLS 5100 to POLS 7978

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 2355	Intergovernmental Relations
-----------	-----------------------------

POLS 3300	The U.S. Congress
-----------	-------------------

POLS 3302	Judicial Process and Behavior
-----------	-------------------------------

POLS 3304	Presidential Nominating Process
-----------	---------------------------------

POLS 3305	The American Presidency
-----------	-------------------------

POLS 3307	Public Policy and Administration
-----------	----------------------------------

POLS 3310	Public Opinion, Voting, and Elections
-----------	---------------------------------------

POLS 3315	Interest Groups and Public Policy
-----------	-----------------------------------

POLS 3320	Politics and Mass Media
-----------	-------------------------

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	Campaign and Elections Practicum	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	Intergovernmental Relations
-----------	-----------------------------

POLS 3310	Public Opinion, Voting, and Elections
-----------	---------------------------------------

POLS 3162	Local Campaigns and Elections
-----------	-------------------------------

POLS 3320	Politics and Mass Media
-----------	-------------------------

POLS 3402	Survey Research and Polling
-----------	-----------------------------

POLS 3304	Presidential Nominating Process
-----------	---------------------------------

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
------	-------	-------

Theoretical Requirement

Complete one of the following: 4

POLS 2370	Religion and Politics
-----------	-----------------------

POLS 3415	Ethnic Political Violence
-----------	---------------------------

POLS 3418	Nationalism
-----------	-------------

POLS 3427	Civil-Military Relations
-----------	--------------------------

POLS 3487	Politics of Developing Nations
-----------	--------------------------------

POLS 3490	Democracy in Comparative Politics
-----------	-----------------------------------

Regional Requirements

Complete two of the following: 8

POLS 3435	Politics and Governance of Europe and the European Union
-----------	----------------------------------------------------------

POLS 3445	Politics in Central and Eastern Europe
-----------	----------------------------------------

POLS 3450	Government and Politics in Russia
-----------	-----------------------------------

POLS 3460	Contemporary Government and Politics in Africa
-----------	------------------------------------------------

POLS 3465	Government and Politics in the Middle East
-----------	--------------------------------------------

POLS 3475	Government and Politics in Latin America
-----------	------------------------------------------

POLS 3480	Government and Politics in Japan
-----------	----------------------------------

POLS 3485	China: Governance and Foreign Policy
-----------	--------------------------------------

Experiential/Practicum Requirement

Complete one of the following: 4

POLS 4915	Model Arab League
-----------	-------------------

POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415 or POLS 3418	Ethnic Political Violence Nationalism	4
<i>Electives</i>		
Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4938	Dialogue of Civilizations: International Politics Abroad	
<i>Core Courses</i>		
Complete three of the following:		12
POLS 3405	International Political Economy	
POLS 3406	International Law	
POLS 3407	International Organizations	
POLS 3408	International Security	
POLS 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	
POLS 3445	Politics in Central and Eastern Europe	
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	
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, BS/MPA

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Undergraduate students apply to the PlusOne bachelor's/master's program through the graduate school. Once admitted, students may count a maximum of 16 semester hours of graduate credit toward the undergraduate degree.

Introduction to College

Complete "Introduction to College" for your major.

Political Science Major Requirements

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 2326	Premodern 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.

Courses

Complete one of the following: 4

POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4942	Internship in Politics	
POLS 4944	Student Leadership Practicum	
POLS 4948	Community-Based Research Practicum	

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.

Complete eight political science electives with a minimum of four 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. 830).

- American Political Institutions
- Campaigns and Elections
- Comparative Politics
- Identity, Culture and Politics
- International Relations and Diplomacy
- Law and Legal Studies
- Public Policy
- Security Studies

Political Science Major Credit Requirement

Complete 60 semester hours in the major.

Graduate Courses taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

LPSC 7305	Research and Statistical Methods	3
or POLS 7202	Quantitative Techniques	
PPUA 6500	Principles of Public Administration	3
Complete up to three of the following:		9
PPUA 6502	Economic Institutions and Analysis	
PPUA 6503	Public Personnel Administration	
PPUA 6504	Organizational Theory and Management	
PPUA 6505	Public Budgeting and Financial Management	

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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations
POLS 3310	Public Opinion, Voting, and Elections
POLS 3162	Local Campaigns and Elections
POLS 3320	Politics and Mass Media
POLS 3402	Survey Research and Polling
POLS 3304	Presidential Nominating Process

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
------	-------	-------

Theoretical Requirement

Complete one of the following: 4

POLS 2370	Religion and Politics
POLS 3415	Ethnic Political Violence
POLS 3418	Nationalism
POLS 3427	Civil-Military Relations
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics

Regional Requirements

Complete two of the following: 8

POLS 3435	Politics and Governance of Europe and the European Union
POLS 3445	Politics in Central and Eastern Europe
POLS 3450	Government and Politics in Russia
POLS 3460	Contemporary Government and Politics in Africa
POLS 3465	Government and Politics in the Middle East
POLS 3475	Government and Politics in Latin America
POLS 3480	Government and Politics in Japan
POLS 3485	China: Governance and Foreign Policy

Experiential/Practicum Requirement

Complete one of the following: 4

POLS 4915	Model Arab League
POLS 4917	Model European Union
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 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	

Electives

Complete three of the following: 12

POLS 2333	Politics and Film
POLS 2336	Politics and the Arts
POLS 2360	Politics of Poverty
POLS 2368	Music and Politics
POLS 2370	Religion and Politics

POLS 2375	Gender and Politics
POLS 2380	Latino Politics in the United States
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
POLS 3320	Politics and Mass Media
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 4917	Model European Union
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 3409	Global Governance
POLS 3435	Politics and Governance of Europe and the European Union
POLS 3445	Politics in Central and Eastern Europe
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 2385	U.S. Health and Welfare Policy
POLS 2390	Science, Technology, and Public Policy

POLS 2395	Environmental Politics and Policy
POLS 3315	Interest Groups and Public Policy
POLS 3402	Survey Research and Polling
POLS 3410	Nontraditional Security Issues
POLS 3412	Homeland Security Policy and Politics
POLS 3425	U.S. Foreign Policy
POLS 4948	Community-Based Research Practicum

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	
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, BS/Security and Resilience Studies, MS

Program Requirements

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Introduction to College

Complete "Introduction to College" for your major.

Political Science Major Requirements

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 2326	Premodern 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.

Courses

Complete one of the following:	4
POLS 4910	Model United Nations
POLS 4915	Model Arab League
POLS 4917	Model European Union
POLS 4918	Model NATO
POLS 4942	Internship in Politics
POLS 4944	Student Leadership Practicum
POLS 4948	Community-Based Research Practicum

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.

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. 833).

- American Political Institutions
- Campaigns and Elections
- Comparative Politics
- Identity, Culture and Politics
- International Relations and Diplomacy
- Law and Legal Studies
- Public Policy
- Security Studies

Political Science Undergraduate Major Credit Requirement

Complete 52 semester hours in the major.

Graduate Courses taken as an Undergraduate Student

POLS 7341	Security and Resilience Policy	3
POLS 7342	Security and Resilience Studies Toolkit	1
POLS 7347	Controversial Issues in Security Studies	1
POLS 7704	Critical Infrastructure Resilience	4
POLS 7369	International Security	3

Complete an additional graduate course to count toward the graduate program. 3

Program Requirements

128 total semester hours required

Minimum 3.000 GPA required in all graduate courses.

Concentrations

CONCENTRATION IN AMERICAN POLITICAL INSTITUTIONS

Code	Title	Hours
Complete four of the following:		16
POLS 2350	State and Local Politics	
POLS 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN COMPARATIVE POLITICS

Code	Title	Hours
<i>Theoretical Requirement</i>		
Complete one of the following:		4
POLS 2370	Religion and Politics	
POLS 3415	Ethnic Political Violence	
POLS 3418	Nationalism	
POLS 3427	Civil-Military Relations	
POLS 3487	Politics of Developing Nations	
POLS 3490	Democracy in Comparative Politics	
<i>Regional Requirements</i>		
Complete two of the following:		8
POLS 3435	Politics and Governance of Europe and the European Union	

POLS 3445	Politics in Central and Eastern Europe
POLS 3450	Government and Politics in Russia
POLS 3460	Contemporary Government and Politics in Africa
POLS 3465	Government and Politics in the Middle East
POLS 3475	Government and Politics in Latin America
POLS 3480	Government and Politics in Japan
POLS 3485	China: Governance and Foreign Policy

Experiential/Practicum Requirement

Complete one of the following:		4
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
POLS 4918	Model NATO	
POLS 4937	Dialogue of Civilizations: Government and Politics Abroad	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415	Ethnic Political Violence	4
or POLS 3418	Nationalism	

Electives

Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	
POLS 2360	Politics of Poverty	
POLS 2368	Music and Politics	
POLS 2370	Religion and Politics	
POLS 2375	Gender and Politics	
POLS 2380	Latino Politics in the United States	
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy	
POLS 3320	Politics and Mass Media	
POLS 3324	Law and Society	

CONCENTRATION IN INTERNATIONAL RELATIONS AND DIPLOMACY

Code	Title	Hours
<i>Experiential/Practicum Requirement</i>		
Complete one of the following:		4
POLS 4910	Model United Nations	
POLS 4915	Model Arab League	
POLS 4917	Model European Union	
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 3409	Global Governance	
POLS 3435	Politics and Governance of Europe and the European Union	

POLS 3445	Politics in Central and Eastern Europe
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
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

CONCENTRATION IN SECURITY STUDIES

Code	Title	Hours
Complete four of the following:		16
POLS 3408	International Security	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3415	Ethnic Political Violence	
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
Four Years, 1 Co-op (option 1)**

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1000	1	POLS 1150	4	Elective	4	Vacation	4
POLS 1155	4	POLS 1160	4	Elective	4		
ENGW 1111	4	POLS 2399	4				
Elective	4	Elective	4				
Elective	4						
		17	16	8	0		

Year 2							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 2400	4	EESH 2000	1	Elective	4	Co-op	4
Politics elective #1	4	Politics Theory course	4	Elective	4		
Politics elective #2	4	Politics elective #3	4				
Elective	4	General elective (3000+ level)	4				
		Elective	4				
		16	17	8	0		

Year 3							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
Co-op		Politics elective #4	4	Vacation		Vacation	
		Politics elective #5	4				
		Advanced Writing in the Disciplines	4				
		Elective (3000+ level)	4				
		0	16	0	0		

Year 4			
Fall	Hours	Spring	Hours
Elective (3000+ level)	4	Elective	4
Elective	4	POLS 4701	4
POLS 7341	3	POLS 7369	3
POLS 7342	1	Specialization elective	3
POLS 7347	1		
POLS 7704	4		
		17	14

Total Hours: 129

Four Years, 1 Co-op (option 2)

Year 1							
Fall	Hours	Spring	Hours	Summer 1	Hours	Summer 2	Hours
POLS 1000	1	POLS 1150	4	Elective	4	Vacation	4
POLS 1155	4	POLS 1160	4	Elective	4		

ENGW 1111	4 BA Language Requirement #1	4		
Elective	4 Elective	4		
Elective	4			
	17	16	8	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
POLS 2399	4 EESH 2000	1 Elective	4 Co-op	
POLS 2400	4 Politics Theory course	4 Elective	4	
BA Language Requirement #2	4 Politics elective #1	4		
Elective	4 BA Language Requirements #3	4		
	Elective	4		
	16	17	8	0

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Co-op	Politics elective #2	4 Vacation	Vacation	
	Politics elective #3	4		
	Advanced Writing in the Disciplines	4		
	Elective	4		
	0	16	0	0

Year 4

Fall	Hours Spring	Hours
Elective	4 Elective	4
Elective	4 POLS 4701	4
POLS 7341	3 POLS 7369	3
POLS 7342	1 Specializator elective	3
POLS 7347	1	
POLS 7704	4	
	17	14

Total Hours: 129

Fours Years, 2 Co-ops

Year 1

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
POLS 1000	1 POLS 1150	4 Elective	4 Vacation	
POLS 1155	4 POLS 1160	4 Elective	4	
ENGW 1111	4 POLS 2399	4		
Elective	4 Elective	4		
Elective	4			
	17	16	8	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
EESH 2000	1 Co-op	Co-op	Elective (3000+ level)	4
POLS 2400	4		Elective	4
Politics elective #1	4			
Politics elective #2	4			
Elective	4			
	17	0	0	8

Year 3

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
Politics Theory course	4 Co-op	Co-op	Elective (3000+ level)	4
Politics elective #3	4		Elective	4
Politics elective #4	4			
Advanced Writing in the Disciplines	4			
	16	0	0	8

Year 4

Fall	Hours Spring	Hours Summer 1	Hours
Elective	4 Elective	4 Elective (3000+ level)	4
Politics elective #5	4 POLS 4701	4 Elective	4
POLS 7341	3 POLS 7369	3	
POLS 7342	1 Specializator elective	3	
POLS 7347	1		
POLS 7704	4		
	17	14	8

Total Hours: 129

Political Science, BS/JD

Program Requirements

Students in the 3+3 Program begin their first-year law school courses during their fourth year of study and apply those credits toward both their bachelor's degree and law degree. The program is available only by invitation.

Political Science, Minor

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

Required Courses

Complete two of the following:		8
POLS 1150	American Government	
POLS 1155	Comparative Politics	

POLS 1160	International Relations
-----------	-------------------------

Elective Courses

Complete three political science courses. 12

GPA Requirement

2.000 GPA required in the minor

American Political Institutions, Minor

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

POLS 1150	American Government	4
-----------	---------------------	---

Electives

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 2355	Intergovernmental Relations
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 3315	Interest Groups and Public Policy
POLS 3320	Politics and Mass Media
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

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 Course

POLS 1160	International Relations	4
-----------	-------------------------	---

Required Core Courses

Complete two of the following: 8

POLS 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3412	Homeland Security Policy and Politics

POLS 3420	U.S. National Security Policy
-----------	-------------------------------

Elective Courses

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 3410	Nontraditional Security Issues
POLS 3412	Homeland Security Policy and Politics
POLS 3415	Ethnic Political Violence
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>)

Matthew O. Hunt, PhD

Professor and Chair

500 Holmes Hall

617.373.2686

617.373.2688 (fax)

Mary Ramsey, Administrative Assistant, m.ramsey@northeastern.edu

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. 28)."

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. 30)." For template program requirements, visit the myNEU 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)

- Sociology (p. 837)
- Cultural Anthropology (p. 839)
- Sociology and Cultural Anthropology (p. 840)
- Communication Studies and Sociology (p. 841)
- English and Cultural Anthropology (p. 846)
- Human Services and Sociology (p. 848)
- International Affairs and Cultural Anthropology (p. 849)
- Media and Screen Studies and Sociology (p. 852)
- Sociology and Political Science (p. 853)

Bachelor of Science (BS)

- Sociology (p. 855)
- Computer Science and Sociology (p. 843)
- Cultural Anthropology (p. 857)
- Sociology and Cultural Anthropology (p. 858)
- Human Services and Sociology (p. 859)
- Linguistics and Cultural Anthropology (p. 860)

Dual Degrees

- Sociology, BA/MA (p. 862)
- Sociology, BS/MA (p. 863)

Minors

- Sociology (p. 864)
- Cultural Anthropology (p. 864)

Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Sociology Major Requirements

Courses in the major require a grade of C or higher.

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

Senior Seminar

SOCL 4600	Senior Seminar	4
-----------	----------------	---

Required Sociology Electives

Introductory-Level Electives

Complete one course from the following range:	4
SOCL 1100 to SOCL 1999	

Intermediate-Level Electives

Complete two courses from the following range:	8
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 Twenty-First-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 from the following range:	4
SOCL 4000 to SOCL 4999	

Social Science Electives

Complete four social science courses from the following subject areas: AFRS, AFAM, ANTH, CRIM, ECON, HUSV, HIST, INTL, LING, LPSC, POLS, or PSYC. 16

The following course may also be used as a social science elective:

WMNS 3441	Topics in Women's, Gender, and Sexuality Studies
-----------	--------------------------------------------------

Sociology Experiential Learning Requirement

Complete one of the following courses or a study abroad or a co-op: 4

SOCL 3470	Social Conflict and Community Service
SOCL 3487	Applied Sociology: Practice and Theory
SOCL 4971	Junior/Senior Honors Project 2
SOCL 4996	Experiential Education Directed Study
SOCL 3488	Doing Sociology in the City Abroad

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
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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Cultural Anthropology Major Requirements

Cultural Anthropology

A grade of C or higher is required: ¹

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

A grade of C or higher is required. 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 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

Program Requirements

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Sociology Major Requirements

Required Sociology

A grade of C or higher is required:

SOCL 1101	Introduction to Sociology	4
SOCL 2300	Social Theory	4
SOCL 2321	Research Methods in Sociology	4

Sociology Electives

A grade of C– or higher is required in 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:

SOCL 3470	Social Conflict and Community Service	4
SOCL 3487	Applied Sociology: Practice and Theory	
SOCL 4996	Experiential Education Directed Study	
COOP 3945	Co-op Work Experience	
SOCL 4971	Junior/Senior Honors Project 2	

Anthropology Major Requirements

Cultural Anthropology

ANTH 1101	Peoples and Cultures	4
ANTH 3410	Ethnographic Field Experience	4
ANTH 3421	Foundations of Anthropological Theory	4

Advanced Area Courses

A grade of C or higher is required.

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.

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.

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 Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Communication Studies and Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Communication Studies Requirements

Code	Title	Hours
Communications 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:		
COMM 1210	Persuasion and Rhetoric	
COMM 1310	Classical Foundations of Communication	
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 3201	Health Communication
COMM 3230	Interpersonal Communication
COMM 3304	Communication and Inclusion
COMM 3320	Political Communication
COMM 3331	Argumentation and Debate
COMM 3414	Great Speakers and Speeches 2, 1930–Present
COMM 3415	Communication Criticism
COMM 3500	Environmental Issues, Communication, and the Media
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 4131	Sex and Interpersonal Communication
COMM 4533	Consultation Skills
COMM 4534	Organizational Communication Training and Development
COMM 4535	Nonverbal Social Interaction
COMM 4602	Contemporary Rhetorical Theory
COMM 4605	Youth and Communication Technology
COMM 4631	Crisis Communication and Image Management
COMM 4901	Seminar in Communications
COMM 4918	Special Topics in Communication Studies

Communication Studies Electives

Complete three COMM courses. 12

Sociology Requirements

A grade of C or higher is required in 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 and SOCL 1121	Society and Health and Society and Health Recitation
SOCL 1220	Sociology of Boston
SOCL 1228	Social Problems
SOCL 1235	Social Psychology
SOCL 1241	Sociology of Violence
SOCL 1240	Sociology of Prejudice and Violence

SOCL 1245	Sociology of Poverty
SOCL 1247	Urban Social Problems
SOCL 1255	Sociology of the Family
SOCL 1256	Violence in the Family
SOCL 1260	Gender in a Changing Society
SOCL 1275	Social Stratification
SOCL 1283	Globalization and Social Change
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 3402	Feminist Perspectives on Society
SOCL 3406	Class, Crime, and the Legal System
SOCL 3407	The Immigrant Experience: Ethnicity, Race, and Inequality in America
SOCL 3440	Sociology of Human Service Organizations
SOCL 3408	Sociology of Organizations
SOCL 3441	Sociology of Health and Illness
SOCL 3451	Privilege
SOCL 3455	Seminar in Urban Sociology
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 4513	Political Sociology
SOCL 4514	"The Wire" and the Study of Urban Inequalities
SOCL 4518	Law and Social Issues
SOCL 4520	Race, Class, and Gender
SOCL 4523	Sexualities
SOCL 4528	Computers and Society
SOCL 4535	European Union: Social and Political
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
SOCL 1297	Sociology of Popular Culture

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 4533	Consultation Skills
COMM 4534	Organizational Communication Training and Development
COMM 4603	Advocacy Workshop
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	

Communications 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 Sociology Combined-Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

Computer Science and Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Computer Science Courses

Code	Title	Hours
Computer Science Overview		
CS 1200	Computer Science/Information Science Overview 1	1
CS 1210	Computer Science/Information Science Overview 2: Co-op Preparation	1
Computer Science Fundamental Courses		
CS 1800 and CS 1801	Discrete Structures and Recitation for CS 1800	4
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 3200	Database Design	4
CS 3500	Object-Oriented Design	4
CS 4800	Algorithms and Data	4
IS 2000	Principles of Information Science	4

Computer Science Writing Intensive Requirement

Complete one course from 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.)	

Computer Science Elective Courses

Complete two upper-division computer science courses from the following ranges: 8

CS 2500 to CS 7999, but not CS 5010
IS 2000 to IS 7999, but not IS 4900
DS 2000 to DS 7999, but not DS 4900

Presentation Requirement

THTR 1170	The Eloquent Presenter	1
-----------	------------------------	---

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 three Sociology electives from the following ranges: 12

Sociology Elective A: Complete one course from SOCL 1000 to 1999.
Sociology Elective B: Complete one course from SOCL 2000 to 3999.
Sociology Elective C: Complete one course from SOCL 4000 to 4999.

Sociology Required Capstone

SOCL 4600	Senior Seminar	4
-----------	----------------	---

Integrative Course Requirement

Code	Title	Hours
Complete one course from the following: 4		
SOCL 1280	The Twenty-First-Century Workplace	
SOCL 3485	Environment, Technology, and Society	
SOCL 4528	Computers and Society	
ANTH 3418	Wired/Unwired: Cybercultures and Technopolitics	

Major GPA Requirement

Minimum 2.000 GPA required in all CS and IS courses

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 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 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
- 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

Note: CCIS intentionally makes the total credits required one less than the sum of the credits to allow for a one credit waiver if needed.

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 1800 and CS 1801	4 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			
				0
18	17	8		

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800 and CS 2801	5 CS Elective 1	4 ENGW 3302, 3308, or 3315	4 Co-op	
CS 4800	4 CS 1210	1 Elective	4	
SOCL 2321	4 SOCL 2300	4		
ANTH 2305	4 Sociology Elective A	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	
		Sociology Elective B	4	
		SOCL 1280, 3485, 4528, or ANTH 3418	4	
		Elective	4	
		THTR 1170	1	
		0	17	8
				0

Year 4

Fall	Hours Spring	Hours Summer 1	Hours
Co-op	CS 4500, IS 3500, or DS 4200	4 Elective (if needed)	4
		SOCL 4600	4 Elective (if needed)
		Sociology Elective C	4
		Elective	4
		0	16
			8

Total Hours: 134

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 1801	4 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			
		18	17	8
				0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 2800 and CS 2801	5 Co-op	Co-op	ENGW 3302, 3308, or 3315	4
CS 4800	4		Elective	4
CS 1210	1			
SOCL 2321	4			

ANTH 2305	4			
	18	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 Elective A	4			
Elective	4			
THTR 1170	1			
	17	0	0	8

Year 4

Fall	Hours Spring	Hours Summer 1	Hours
CS Elective 2	4 CS 4500, IS 3500, or DS 4200	4 Elective (if needed)	4
Sociology Elective B	4 SOCL 4600	4 Elective (if needed)	4
SOCL 1280, 3485, 4528, or ANTH 3418	4 Sociology Elective C	4	
Elective	4 Elective	4	
	16	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 1801	4 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			
	18	17	0	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 CS 2800 and CS 2801	5 Vacation	Co-op	
CS 4800	4 CS 3200	4		
SOCL 2321	4 CS 1210	1		
ANTH 2305	4 SOCL 2300	4		
	Sociology Elective A	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, or 3315	4 Co-op	
	Sociology Elective B	4 Elective	4	

SOCL 1280, 3485, 4528, or ANTH 3418	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	
	Sociology Elective C	4 Elective	4	
	Elective	4		
	Elective	4		
	0	16	8	0

Year 5

Fall	Hours Spring	Hours
Co-op	CS 4500, IS 3500, or DS 4200	4
	SOCL 4600	4
	Elective	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 1801	4 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			
	18	17	0	0

Year 2

Fall	Hours Spring	Hours Summer 1	Hours Summer 2	Hours
CS 3500	4 Co-op	Co-op	Vacation	
CS 4800	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 2800 and CS 2801	5 Co-op	Co-op	ENGW 3302, 3308, or 3315	4
CS 3200	4		Elective	4
SOCL 2300	4			
Sociology Elective A	4			

THTR 1170	1				
	18	0	0		8
Year 4					
Fall	Hours	Spring	Hours	Summer 1	Hours
CS Elective 1	4	Co-op		Co-op	4
Sociology Elective B	4			Elective	4
SOCL 1280, 3485, 4528, or ANTH 3418	4				
Elective	4				
	16	0	0		8
Year 5					
Fall	Hours	Spring	Hours		
CS Elective 2	4	CS 4500, IS 3500, or DS 4200	4		
Sociology Elective C	4	SOCL 4600	4		
Elective	4	Elective	4		
Elective	4	Elective	4		
	16		16		

Total Hours: 134

English and Cultural Anthropology, 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. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 ENGL 3000–ENGL 4999.		
Foundational Courses		
ENGL 1400	Introduction to Literary Studies	4
ENGL 1700	Global Literature to 1500	4
ENGL 1160 or ENGL 1410	Introduction to Rhetoric Introduction to Writing Studies	4
Diversity		

Complete one of the following courses. This course may also be used to fulfill an additional English requirement below:		4
ENGL 2296	Early African-American Literature	
ENGL 2360	Modern African-American Literature	
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature	
ENGL 2450	Postcolonial Literature	
ENGL 2460	Multiethnic Literatures of the U.S.	
ENGL 2470	Asian-American Literature	
ENGL 2480	U.S. Latino/a Literature	
ENGL 2490	Native American Literature	
ENGL 2760	Writing in Global Contexts	
ENGL 3663	The African-American Novel	

Pre-Nineteenth-Century Literature

Complete one of the following:		4
ENGL 1600	Introduction to Shakespeare	
ENGL 2200	The Bible	
ENGL 2210	Medieval British Literature	
ENGL 2215	Shakespeare's Comedies	
ENGL 2216	Shakespeare's Tragedies	
ENGL 2230	Sixteenth-Century British Literature	
ENGL 2240	Seventeenth-Century British Literature	
ENGL 2250	Eighteenth-Century British Literature	
ENGL 2295	Revolution and Revolt in Early American Literature	
ENGL 2296	Early African-American Literature	
ENGL 3151	Topics in Early Literatures Abroad	
ENGL 3607	Chaucer	
ENGL 3618	Milton	
ENGL/JWSS 3678	Bedrooms and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity	
ENGL 4020	Topics in 17th- and 18th-Century Literatures	

Nineteenth-Century Literature

Complete one of the following:		4
ENGL 2260	Romantic Poetry	
ENGL 2270	Victorian Literature	
ENGL 2280	Nineteenth-Century British Fiction	
ENGL 2330	The American Renaissance	
ENGL 2340	American Realism	
ENGL 3619	Emerson and Thoreau	
ENGL 3720	Nineteenth-Century Major Figure	
ENGL 4040	Topics in 19th-Century Literatures	

Twentieth- and Twenty-First-Century Literature

Complete one of the following:		4
ENGL 2290	Twentieth-Century British Literature	
ENGL 2291	Major Twentieth-Century British Novelists	
ENGL 2355	Modern American Literature	
ENGL 2360	Modern African-American Literature	
ENGL 2410	Contemporary American Literature	
ENGL 2440	The Modern Bestseller	
ENGL 2600	Irish Literary Culture Abroad	

ENGL/JWSS 2610	Contemporary Israeli Literature and Art Abroad
ENGL/JWSS 3685	From Kafka to Kushner: Modern and Contemporary Jewish Literature
ENGL 3730	Twentieth- and Twenty-First-Century Major Figure
ENGL 4060	Topics in 20th- and 21st-Century Literatures

Theories and Methods

Complete one of the following: 4	
ENGL 1160	Introduction to Rhetoric
ENGL 1410	Introduction to Writing Studies
ENGL 2830	Literary Theory
ENGL 3325	Rhetoric of Law
ENGL 3340	Technologies of Text
ENGL 3381	The Practice and Theory of Teaching Writing
ENGL 4100	Topics in Literary Criticism
ENGL 4110	Topics in Rhetoric and Writing Studies
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 1501	British Literature 1800 to Present
ENGL 1502	American Literature to 1865
ENGL 1503	American Literature 1865 to Present
ENGL 1701	Global Literature 1500 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 2460	Multiethnic Literatures of the U.S.
ENGL 2470	Asian-American Literature
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 2510	Horror Fiction
ENGL 2520	Science Fiction
ENGL 2620	What Is Nature? (Abroad)
ENGL 3427	The Literature of Science
ENGL 3487	Film and Text Abroad

ENGL 3488	Film and Text
ENGL 3572	Fantasy
ENGL 3582	Children's Literature
ENGL 3663	The African-American Novel

Writing

Complete one of the following: 4	
ENGL 2700	Creative Writing
ENGL 2710	Style and Editing
ENGL 2740	Writing and Community Engagement
ENGL 2760	Writing in Global Contexts
ENGL 2770	Writing to Heal
ENGL 3376	Creative Nonfiction
ENGL 3377	Poetry Workshop
ENGL 3378	Fiction Workshop
ENGL 3375	Writing Boston
ENGL 3379	Nonfiction Workshop
ENGL 3380	Topics in Writing
ENGL 3382	Publishing in the 21st Century

Capstone

ENGL 4710	Capstone Seminar	4
or ENGL 4720	Capstone Project	

Cultural Anthropology Requirements

Note: A 2.000 GPA is required in all cultural anthropology courses.

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
ENGL 2480	U.S. Latino/a Literature
ENGL 2490	Native American Literature
ENGL 4684	Topics in Postcolonial Literature

Cultural Anthropology Integrative Courses

Complete one of the following:	4
ANTH 2300	Reading Culture through Ethnography
ANTH 3421	Foundations of Anthropological Theory

English and Cultural Anthropology Combined-Major Credit Requirement

Complete 84 semester hours in the major.

Program Requirement

128 total semester hours required

Human Services and Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Human Services Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	4
Policy		
HUSV 3900	Introduction to Social Policy	4
Research Methods		
Complete option A or option B:		4
<i>Option A</i>		
HUSV 3700	Research Methods for Human Services	
<i>Option B</i>		
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 Capstone¹

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

A grade of C or higher is required in 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 1200	Sociology of Alcoholism	
SOCL 1220	Sociology of Boston	
SOCL 1225	Aging in Society	
SOCL 1228	Social Problems	
SOCL 1232	American Society	
SOCL 1235	Social Psychology	
SOCL 1241	Sociology of Violence	
SOCL 1245	Sociology of Poverty	
SOCL 1246	Environment and Society	
SOCL 1247	Urban Social Problems	
SOCL 1255	Sociology of the Family	
SOCL 1256	Violence in the Family	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1283	Globalization and Social Change	
SOCL 1285	Deviant Behavior and Social Control	
SOCL 1287	Sociology of Religion	
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 3402	Feminist Perspectives on Society	

SOCL 3406	Class, Crime, and the Legal System
SOCL 3407	The Immigrant Experience: Ethnicity, Race, and Inequality in America
SOCL 3437	Children and Youth in Contemporary Society
SOCL 3441	Sociology of Health and Illness
SOCL 3451	Privilege
SOCL 3455	Seminar in Urban Sociology
SOCL 3460	Sociology of Latino Society
SOCL 3470	Social Conflict and Community Service
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 3487	Applied Sociology: Practice and Theory
ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective
ANTH 2305	Global Markets and Local Culture
ANTH 2312	The Anthropology of Masculinity
ANTH 2330	Environmental Anthropology
ANTH 2350	Urban Anthropology
ANTH 3417	Political Anthropology

Advanced-Level Elective

Complete one of the following: 4

SOCL 4514	"The Wire" and the Study of Urban Inequalities
SOCL 4518	Law and Social Issues
SOCL 4519	Seminar in Social Psychology
SOCL 4520	Race, Class, and Gender
SOCL 4522	Political Ecology and Environmental Justice
SOCL 4521	Ethnic, Racial, and Religious Identity
SOCL 4523	Sexualities
SOCL 4530	Seminar in the Family
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 Seminar¹

SOCL 4600	Senior Seminar	4
-----------	----------------	---

¹ 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

Human Services and Sociology Combined-Major Credit Requirement

Complete 60 semester hours in the major.

Program Requirement

128 total semester hours required

International Affairs and Cultural Anthropology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

International Affairs Requirements

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: ¹		6-8
INTL 1185	Gender in the African Diaspora	
or AFRS 1185	Gender in the African Diaspora	
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 3460	Transnational Activism in Global Civil Society	
INTL 4945	Dialogue of Civilizations: Global Issues in Comparative Perspective	
INTL 5200	Political Economy: Interdisciplinary Perspectives	
AFAM 2301	Foundations of Black Culture 2	
AFAM 2345	The Black Experience in the Caribbean	
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
ANTH 3415	Anthropology of Travel and Tourism
COMM 2303	Global and Intercultural Communication
MSCR 2325	Global Media
COMM 5240	Global and Intercultural Media
CLTR 1515	Comparative Analysis of the Lusophone World and Culture
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
ENR 2206	Global Social Enterprise
ENR 3306	Global Entrepreneurship
ENVR 1110	Global Climate Change
ENVR 4515	Sustainable Development
HIST 1110	Introduction to World History
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
HIST 2312	Global Migration
HIST 2315	Approaches to World History
HIST 2317	Comparative Urban Histories
HIST 2398	Radicals, Terrorists, and Insurgents
HIST 3412	Global Environmental History
HIST 3452	Global Chinese Migration
HUSV 4920	International Human Services
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 1127	Introduction to World Music
MUSC 1140	Global Pop Music
PHIL 1155	Introduction to Human Rights
PHIL 2302	Philosophical Problems of War and Peace
PHIL 5001	Global Justice
PHIL 5003	Ethics, Justice, and Global Climate Change
PHTH 5230	Global Health
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 3408	International Security
POLS 3410	Nontraditional Security Issues
POLS 3415	Ethnic Political Violence
POLS 3420	U.S. National Security Policy
POLS 3430	Revolution, Civil War, and Insurrection
POLS 3487	Politics of Developing Nations
POLS 3490	Democracy in Comparative Politics
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
SOCL 1283	Globalization and Social Change
SOCL 3465	Globalization and the Evolution of Human Societies
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 4522	Political Ecology and Environmental Justice

International Experiential Learning

Complete at least one “international semester” via study abroad, international internship, international co-op, or two approved short-term programs abroad.

¹ Courses used to fulfill major requirements may not be used to satisfy the global dynamics requirement. Global Markets and Local Culture (ANTH 2305) and International Relations (POLS 1160) may not be used as global dynamics courses. See department for additional courses.

Regional Analysis Requirement

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:

Code	Title	Hours
Africa		
AFRS 1128	The African Experience through Music	4
AFRS 2307	Africa Today	4
AFRS 2465	The Scope and Dynamics of Conflicts in Africa	4
AFRS 2900	Swahili, Culture, and Politics in Kenya	4
AFRS 3460	Contemporary Government and Politics in Africa	4
AFRS 4939	Community Health, Culture, and Development in Kenya	4
AFRS 3645	National Model African Union	4

ANTH 4510	Anthropology of Africa	4	POLS 4917	Model European Union	4
or INTL 4510	Anthropology of Africa		SOCL 4535	European Union: Social and Political	4
ENTR 3306	Global Entrepreneurship	4	Latin America		
ENTR 3308	Business Economic History of South Africa	4	AFAM 2301	Foundations of Black Culture 2	4
HIST 1180	African History	4	AFAM 2345	The Black Experience in the Caribbean	4
HIST 2390	Africa and the World in Early Times	4	AFAM 4507	Afro-Cuban Culture—International Study	4
HIST 2397	Modern Africa	4	ANTH 4500	Latin American Society and Development	4
MUSC 1128	Music of Africa	4	or INTL 4500	Latin American Society and Development	
Asia			CLTR 1505	Introduction to Latin American Culture	4
ANTH 4350	Ethnography of Southeast Asia	4	CLTR 1508	Cuban History and Culture through Film	4
or INTL 4350	Ethnography of Southeast Asia		CLTR 1509	An Introduction to Afro-Cuban Culture	4
ASNS 1150	East Asian Studies	4	CLTR 1240	Latin American Film	4
ASNS 4910	Issues in Modern and Contemporary Asia	4	CLTR 4507	Afro-Cuban Culture—International Study	4
CLTR 1500	Modern Chinese History and Culture	4	CLTR 4508	Cuban History through Film—International Study	4
CLTR 1506	Introduction to Chinese Popular Culture	4	ENTR 3316	Microfinance and Economic Development in Latin America	4
CLTR 1700	Introduction to Japanese Pop Culture	4	ENTR 3318	Business, Economics, and History of Hispaniola and Latin America	4
CLTR 2501	Chinese Film: Gender and Ethnicity	4	ENTR 3326	Sustainability in the Latin American Business Environment	4
HIST 1189	Introduction to South Asian History	4	ENVR 2942	Maritime History and Culture: The Caribbean	4
HIST 1252	Japanese Literature and Culture	4	HIST 1187	Introduction to Latin American History	4
HIST 1253	History of Vietnam Wars	4	HIST 1260	Modern Latin America	4
HIST 1254	Mao's China and After	4	LACS 1220	Latino, Latin American, and Caribbean Studies	4
HIST 1500	Modern Chinese History and Culture	4	LITR 1260	Caribbean Literature and Culture	4
HIST 2351	Modern Japan	4	LITR 4655	Latin American Literature	4
HIST 2352	Dictators and Democracy in Japan and Korea	4	POLS 3475	Government and Politics in Latin America	4
HIST 3452	Global Chinese Migration	4	Middle East		
HIST 4942	East Asian Cultural History Abroad	4	INTL 1160	Middle East Studies	4
POLS 3485	China: Governance and Foreign Policy	4	INTL 2100	Modern Israel	4
PHIL 1275	Hinduism, Buddhism, and Beyond: Eastern Religions	4	INTL 2200	America and the Middle East	4
PHIL 1290	Chinese Philosophy and Religion	4	INTL 2360	Human Rights in the Middle East	4
PHIL 2394	Chinese Buddhism	4	INTL 2400	Politics of Islam and Gender	4
PHIL 2395	Japanese Buddhism	4	INTL 3250	Democracy and Development in North Africa and the Mediterranean	4
PHIL 4545	Religion and Politics in South Asia	4	CLTR 1502	Introduction to Arabic Culture	4
Europe			ECON 1292	Economic History of the Middle East	4
CLTR 1501	Introduction to French Culture	4	HIST 1185	Introduction to Middle Eastern History	4
CLTR 1503	Introduction to Italian Culture	4	HIST 1290	Modern Middle East	4
CLTR 1504	Introduction to Spanish Culture	4	HIST 4944	Middle Eastern History and Culture Independent Field Research Abroad	4
CLTR 2280	French Film and World War II: The German Occupation of France	4	HIST 4945	North African History Abroad	4
ECON 1293	European Economic History	4	JWSS 2500	Zionism and the Challenges of Jewish Statehood	4
HIST 1170	Europe: Empires, Revolutions, Wars, and Their Aftermath	4	POLS 3465	Government and Politics in the Middle East	4
HIST 1270	Ancient Greece	4	POLS 3470	Arab-Israeli Conflict	4
HIST 1271	Ancient Rome	4	POLS 4915	Model Arab League	4
HIST 2280	Hitler, Germany, and the Holocaust	4	PHIL 1270	Judaism, Christianity, and Islam: Abrahamic Religions	4
HIST 2371	Europe 1870–1921	4			
HIST 2372	Gender and Society in Modern Europe	4			
HIST 2376	The British Empire	4			
HIST 4946	Independent Field Research Abroad: Central Europe	4			
POLS 3435	Politics and Governance of Europe and the European Union	4			

PHIL 1280	Encountering Islam: Traditions, Debates, and Crosscultural Diversity	4
PHIL 1285	Jewish Religion and Culture	4
PHIL 1287	Modern Judaism	4
Russia		
HIST 1285	Introduction to Russian Civilization	4
HIST 1286	History of the Soviet Union	4
HIST 2386	History of Soviet Cinema	4
HIST 3486	Commissars and Managers: Soviet Economic History	4
LITR 3503	Russian Literature in Translation	4
POLS 3450	Government and Politics in Russia	4
POLS 3455	Russian Foreign Policy	4
SOCL 1215	Society and Culture in Russia	4
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.

Anthropology Major Requirements

Code	Title	Hours
Cultural Anthropology		
A grade of C or higher is required:		
ANTH 1101	Peoples and Cultures	4
ANTH 3421	Foundations of Anthropological Theory	4
ANTH 3410	Ethnographic Field Experience	4
Anthropology Electives		
Complete three courses from 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. A grade of C or higher is required:		
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.

International Affairs and Anthropology Combined-Major Credit Requirement

Complete 80 semester hours in the major.

Program Requirement

128 total semester hours required

Media and Screen Studies and Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

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 2500	Digital Media Research	
MSCR 2895	Film Analysis	
MSCR 3210	Special Topics in Media and Screen Studies	
MSCR 3300	Media Activism	
MSCR 3402	Television and Society	
MSCR 3422	Media Audiences	
MSCR 3423	Twentieth-Century Media	
MSCR 3426	Popular Music as Media Form	
MSCR 3428	Television Studies	
MSCR 3435	Media Industries	
MSCR 3437	Media and Identity	

MSCR 3438	Celebrity Culture
MSCR 3500	Documentary Storytelling
CINE 2160	Narrative Filmmaking
CINE 2350	History of Film
CINE 2394	Modern Film and Global Culture
CINE 3389	Screenwriting
CINE 3392	Gender and Film
CINE 3446	Topics in Documentary Production
CINE 3900	Film and Psychoanalysis
CINE 3920	Topics in Film Studies
ARTD 3480	Video: Sound and Image
ARTD 3485	Video Art
ARTH 2212	Survey of the Still and Moving Image

Advanced Media and Screen Electives

Complete two of the following:		8
MSCR 4206	Age, Media, and Representation	
MSCR 4208	TV History	
MSCR 4602	Media and Democracy	
MSCR 4610	The Networked Self	
MSCR 4622	Special Topics in Media and Screen Studies	
MSCR 4685	Interactive Documentary	
MSCR 4970	Junior/Senior Honors Project 1	
MSCR 4971	Junior/Senior Honors Project 2	
MSCR 4991	Research	
MSCR 4992	Directed Study	
MSCR 4993	Independent Study	
MSCR 4996	Experiential Education Directed Study	
CINE 3500	Film Theory	
CINE 4500	Modernism/Modernity and Film	
CINE 4550	Cinema Studies Seminar	
CINE 4560	Directing the Short Fiction Film	
ARTD 4582		
ARTD 4682	Video in Context: Video and Social Change	

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 1232	American Society	
SOCL 1245	Sociology of Poverty	
SOCL 1260	Gender in a Changing Society	
SOCL 1275	Social Stratification	
SOCL 1280	The Twenty-First-Century Workplace	

SOCL 1297	Sociology of Popular Culture
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 3460	Sociology of Latino Society	
SOCL 3465	Globalization and the Evolution of Human Societies	
SOCL 4518	Law and Social Issues	
SOCL 4520	Race, Class, and Gender	
SOCL 4522	Political Ecology and Environmental Justice	
SOCL 4580	Special Topics in Sociology	
SOCL 4996	Experiential Education Directed Study	

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

For media and screen studies, majors must maintain at least a 2.500 GPA in their overall program of studies and a minimum of 3.000 in the following two required courses: Media, Culture, and Society (MSCR 1220) and Understanding Media and Film (MSCR 2220).

Program Requirement

128 total semester hours required

Sociology 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Requirements for BA

All undergraduate students are required to complete the BA language requirements (p. 37).

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	Statistical Analysis in Sociology and Research Methods in Sociology	
POLS 2400	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	Survey Research and Polling	
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. 854).

- 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

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 2355	Intergovernmental Relations	
POLS 3300	The U.S. Congress	
POLS 3302	Judicial Process and Behavior	
POLS 3304	Presidential Nominating Process	
POLS 3305	The American Presidency	
POLS 3307	Public Policy and Administration	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3315	Interest Groups and Public Policy	
POLS 3320	Politics and Mass Media	

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	Campaign and Elections Practicum	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	Intergovernmental Relations	
POLS 3310	Public Opinion, Voting, and Elections	
POLS 3162	Local Campaigns and Elections	
POLS 3320	Politics and Mass Media	
POLS 3402	Survey Research and Polling	
POLS 3304	Presidential Nominating Process	

CONCENTRATION IN IDENTITY, CULTURE, AND POLITICS

Code	Title	Hours
<i>Core Course</i>		
POLS 3415	Ethnic Political Violence	4
	or POLS 3418	Nationalism
<i>Electives</i>		
Complete three of the following:		12
POLS 2333	Politics and Film	
POLS 2336	Politics and the Arts	

POLS 2360	Politics of Poverty
POLS 2368	Music and Politics
POLS 2370	Religion and Politics
POLS 2375	Gender and Politics
POLS 2380	Latino Politics in the United States
POLS 3309	Lesbian, Gay, Bisexual, and Transgender Issues in Public Policy
POLS 3320	Politics and Mass Media
POLS 3324	Law and Society

CONCENTRATION IN PUBLIC POLICY

Code	Title	Hours
<i>Core Requirement</i>		
POLS 3307	Public Policy and Administration	4
<i>Electives</i>		
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 2385	U.S. Health and Welfare Policy	
POLS 2390	Science, Technology, and Public Policy	
POLS 2395	Environmental Politics and Policy	
POLS 3315	Interest Groups and Public Policy	
POLS 3402	Survey Research and Polling	
POLS 3410	Nontraditional Security Issues	
POLS 3412	Homeland Security Policy and Politics	
POLS 3425	U.S. Foreign Policy	
POLS 4948	Community-Based Research Practicum	

Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Sociology Major Requirements

Courses in the major require a grade of C or higher.

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
Senior Seminar		
SOCL 4600	Senior Seminar	4

Required Sociology Electives

Introductory-Level Electives

Complete two courses from the following range:	8
SOCL 1100 to SOCL 1999	

Intermediate-Level Electives

Complete three courses from 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 Twenty-First-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 from the following range:	8
SOCL 4000 to SOCL 4999	

Social Science Electives

Complete six social science courses from the following subject areas: AFRS, AFAM, ANTH, CRIM, ECON, HUSV, HIST, INTL, LING, LPSC, POLS, or PSYC.

The following course may also be used as a social science elective:

WMNS 3441	Topics in Women’s, Gender, and Sexuality Studies
-----------	--------------------------------------------------

Sociology Experiential Learning Requirement

Complete one of the following courses or a study abroad or a co-op: 4

SOCL 3470	Social Conflict and Community Service
SOCL 3487	Applied Sociology: Practice and Theory
SOCL 4971	Junior/Senior Honors Project 2
SOCL 4996	Experiential Education Directed Study
SOCL 3488	Doing Sociology in the City Abroad

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 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

Cultural Anthropology, 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. 38).

NUPath Requirements

All undergraduate students are required to complete the NUPath Requirements (p. 34).

Cultural Anthropology Major Requirements

Cultural Anthropology

A grade of C or higher is required: ¹

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

A grade of C or higher is required. 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 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 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
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
-----------------------	---	--	-------------------------	---

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
--	----	----

	16	16
--	----	----

Total Hours: 130

Sociology and Cultural Anthropology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Sociology Major Requirements**Required Sociology**

A grade of C or higher is required:

SOCL 1101	Introduction to Sociology	4
-----------	---------------------------	---

SOCL 2300	Social Theory	4
-----------	---------------	---

SOCL 2321	Research Methods in Sociology	4
-----------	-------------------------------	---

Sociology Electives

A grade of C- or higher is required in sociology electives.

Introductory Electives

Complete two courses in the following range:	8
SOCL 1110 to SOCL 1999	
<i>Intermediate Elective</i>	
Complete one course in the following range:	4
SOCL 2000 to SOCL 3999	
<i>Advanced Elective</i>	
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 3470 Social Conflict and Community Service	
SOCL 3487 Applied Sociology: Practice and Theory	
SOCL 4996 Experiential Education Directed Study	
COOP 3945 Co-op Work Experience	
SOCL 4971 Junior/Senior Honors Project 2	

Anthropology Major Requirements**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

A grade of C or higher is required.

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.

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 Combined-Major Credit Requirement

Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required

Human Services and Sociology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Human Services Requirements

Code	Title	Hours
Human Services Overview		
HUSV 1101	Human Services Professions	4
HUSV 2300	Counseling in Human Services	4
HUSV 3570	Strategic Philanthropy and Nonprofit Management	4
Policy		
HUSV 3900	Introduction to Social Policy	4
Research Methods		
Complete option A or option B:		4
<i>Option A</i>		
HUSV 3700	Research Methods for Human Services	
<i>Option B</i>		
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		
Note: 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).		
HUSV 4700	Senior Seminar in Human Services	4

Sociology Requirements

A grade of C or higher is required in 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 1200	Sociology of Alcoholism
SOCL 1220	Sociology of Boston
SOCL 1225	Aging in Society
SOCL 1228	Social Problems
SOCL 1232	American Society
SOCL 1235	Social Psychology
SOCL 1241	Sociology of Violence
SOCL 1245	Sociology of Poverty
SOCL 1246	Environment and Society
SOCL 1247	Urban Social Problems
SOCL 1255	Sociology of the Family
SOCL 1256	Violence in the Family
SOCL 1260	Gender in a Changing Society
SOCL 1275	Social Stratification
SOCL 1283	Globalization and Social Change
SOCL 1285	Deviant Behavior and Social Control
SOCL 1287	Sociology of Religion
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 3402	Feminist Perspectives on Society
SOCL 3406	Class, Crime, and the Legal System
SOCL 3407	The Immigrant Experience: Ethnicity, Race, and Inequality in America
SOCL 3437	Children and Youth in Contemporary Society
SOCL 3441	Sociology of Health and Illness
SOCL 3451	Privilege
SOCL 3455	Seminar in Urban Sociology
SOCL 3460	Sociology of Latino Society
SOCL 3470	Social Conflict and Community Service
SOCL 3471	Social Conflict and Community Services Abroad
SOCL 3487	Applied Sociology: Practice and Theory
ANTH 2302	Gender and Sexuality: A Cross-Cultural Perspective
ANTH 2305	Global Markets and Local Culture
ANTH 2312	The Anthropology of Masculinity
ANTH 2315	Religion and Modernity
ANTH 2330	Environmental Anthropology
ANTH 2350	Urban Anthropology
ANTH 3417	Political Anthropology

Advanced-Level Elective

Complete one of the following: 4

SOCL 4514	"The Wire" and the Study of Urban Inequalities
SOCL 4518	Law and Social Issues
SOCL 4519	Seminar in Social Psychology
SOCL 4520	Race, Class, and Gender
SOCL 4522	Political Ecology and Environmental Justice
SOCL 4521	Ethnic, Racial, and Religious Identity
SOCL 4523	Sexualities
SOCL 4530	Seminar in the Family
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

Note: With permission of the sociology head advisor, the student may complete human services capstone HUSV 4700 and substitute one advanced sociology elective for SOCL 4600.

SOCL 4600	Senior Seminar	4
-----------	----------------	---

Human Services/Sociology Integrative Course

Code	Title	Hours
HUSV 2350	Ethnic Relations, Cultural Identity, and Human Services	4

Human Services and Sociology Combined-Major Credit Requirement

Complete 60 semester hours in the major.

Program Requirement

128 total semester hours required

Linguistics and Cultural Anthropology, 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. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

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 Combined-Major 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	Phonetics and 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 3402	African-American English	
LING 3424	Morphology	
LING 3428	African Languages	
LING 3430	Applied Linguistics	
LING 3432	Romance Linguistics	
LING 3434	Bilingualism	
LING 3436	Structure of Spanish	
LING 3438	Structure of French	
LING 3444	Linguistics in Education	
LING 3448	Issues in Linguistics	
LING 3452	Semantics	
LING 3454	History of English	
LING 3458	Topics in Linguistics	
LING 3460	Historical Linguistics	
LING 4654	Seminar in Linguistics	
PHIL 1215	Symbolic Logic	
PHIL 4540	Philosophy of Language	
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 4996	Experiential Education Directed Study	
LING 4970 and LING 4971	Junior/Senior Honors Project 1 and Junior/Senior Honors Project 2	

Anthropology Combined-Major Requirements

Note: A grade of C or higher is required for all courses in this section.

Code	Title	Hours
Cultural Anthropology		
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. 12

Linguistics/Anthropology Integrative Requirement

Code	Title	Hours
Integrative Course		
LING 3412	Language and Culture	4

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, BA/MA**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.

BA Language Requirements

All BA students are required to complete the BA language requirements (p. 37).

Sociology Major Requirements

Courses in the major require a grade of C or higher.

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

Cultural Anthropology

ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4

Senior Seminar

SOCL 4600	Senior Seminar	4
-----------	----------------	---

Required Sociology Electives**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 following:	4
SOCL 1260	Gender in a Changing Society

SOCL 1280	The Twenty-First-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: 4

SOCL 4000 to SOCL 4999

Social Science Electives

Complete four social science courses from the following subject areas: AFRS, AFAM, ANTH, CRIM, ECON, HUSV, HIST, INTL, LING, LPSC, POLS, or PSYC. 16

The following course may also be used as a social science elective:

WMNS 3441 Topics in Women's, Gender, and Sexuality Studies

Sociology Experiential Learning Requirement

Complete one of the following courses or a study abroad or a co-op: 4

SOCL 3470	Social Conflict and Community Service
SOCL 3487	Applied Sociology: Practice and Theory
SOCL 3488	Doing Sociology in the City Abroad
SOCL 4971	Junior/Senior Honors Project 2
SOCL 4996	Experiential Education Directed Study

Sociology Major Credit Requirement

Complete 68 semester hours in the major.

Graduate Course Work to be Taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Graduate Sociology RequirementsComplete four courses in the following range: 16
SOCL 5000 to SOCL 7999**Program Requirement**

128 total semester hours required

Sociology, BS/MA**Program Requirements**

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

University-Wide Requirements

All undergraduate students are required to complete the University-Wide Requirements (p. 38).

NUpath Requirements

All undergraduate students are required to complete the NUpath Requirements (p. 34).

Note: This curriculum reflects only course work to be taken as an undergraduate student. For additional course work to be taken as a graduate student, see the graduate program in the *Northeastern University Graduate Catalog*.**Sociology Major Requirements**

Courses in the major require a grade of C or higher.

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

Cultural Anthropology

ANTH 1101	Peoples and Cultures	4
ANTH 2305	Global Markets and Local Culture	4

Senior Seminar

SOCL 4600	Senior Seminar	4
-----------	----------------	---

Required Sociology Electives**Introductory-Level Electives**Complete two course 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 Twenty-First-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 ElectiveComplete two courses in the following: 8
SOCL 4000 to SOCL 4999**Social Science Electives**

Complete six social science courses from the following subject areas: AFRS, AFAM, ANTH, CRIM, ECON, HUSV, HIST, INTL, LING, LPSC, POLS, or PSYC. 24

The following course may also be used as a social science elective:

WMNS 3441 Topics in Women's, Gender, and Sexuality Studies

Sociology Experiential Learning Requirement

Complete one of the following courses or a study abroad or a co-op: 4

SOCL 3470	Social Conflict and Community Service	
SOCL 3487	Applied Sociology: Practice and Theory	
SOCL 3488	Doing Sociology in the City Abroad	
SOCL 4971	Junior/Senior Honors Project 2	
SOCL 4996	Experiential Education Directed Study	

Sociology Major Credit Requirement

Complete 88 semester hours in the major.

Graduate Course Work to be Taken as an Undergraduate Student

Minimum 3.000 GPA required in all graduate courses

Graduate Sociology Requirements

Complete four courses in the following range:	16
SOCL 5000 to SOCL 7999	

Program Requirement

128 total semester hours required

Sociology, Minor

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

Introduction to Sociology

SOCL 1101	Introduction to Sociology	4
-----------	---------------------------	---

Research Methods

An intermediate- or advanced-level elective may be substituted for Research Methods in Sociology (SOCL 2321) if taken for your major.

SOCL 2300	Social Theory	4
or SOCL 2321	Research Methods in Sociology	

Introductory-Level Required Electives

Complete two courses from the following range:	8
SOCL 1100 to SOCL 1299	

Intermediate-/Advanced-Level Required Elective

Complete one course from the following range:	4
SOCL 3400 to SOCL 4599	

GPA Requirement

2.000 GPA required in the minor

Cultural Anthropology, Minor

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

Required Courses

ANTH 1101	Peoples and Cultures	4
ANTH 3421	Foundations of Anthropological Theory	4
or ANTH 3410	Ethnographic Field Experience	

Anthropology Electives

Complete two ANTH courses. 8

Advanced Area Courses

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

GPA Requirement

2.000 GPA required in the minor

University Faculty

A

Mehdi Abedi

Assistant Teaching Professor, Mechanical and Industrial Engineering; Northeastern University, PhD

Kuzhikalail M. Abraham

Research Professor, Chemistry and Chemical Biology; Tufts University, PhD

Max Abrahms

Assistant Professor, Political Science; University of California, Los Angeles, PhD

Ali Abur

Professor, Electrical and Computer Engineering; Ohio State University, PhD

Daniel Adams

Associate Professor, Architecture; Harvard University, MArch

George G. Adams

College of Engineering Distinguished Professor, Mechanical and Industrial Engineering; University of California, Berkeley, PhD

Jeffrey Agar

Associate Professor, Chemistry and Chemical Biology and Pharmaceutical Sciences; University of Georgia, PhD

Rajesh Aggarwal

Professor, Finance; Harvard University, PhD

Ruth Aguilera

Professor, International Business and Strategy; Harvard University, PhD

Amal Ahmed

Assistant Professor, Computer and Information Science; Princeton University, PhD

Sophia Ainslie

Lecturer, Art + Design; School of the Museum of Fine Arts/Tufts University, MFA

M. Shahid Alam

Professor, Economics; University of Western Ontario (Canada), PhD

Noor E. Alam

Assistant Professor, Mechanical and Industrial Engineering; University of Alberta (Canada), PhD

Brian Albrecht

Assistant Cooperative Education Coordinator, College of Engineering; Carnegie Mellon University, MS

Len Albright

Assistant Professor, Sociology and Anthropology and Public Policy and Urban Affairs; University of Chicago, PhD

Daniel P. Aldrich

Professor, Political Science and Public Policy and Urban Affairs; Harvard University, PhD

Todd M. Alessandri

Associate Professor, International Business and Strategy; University of North Carolina, Chapel Hill, PhD

Jacques Alexis

Assistant Academic Specialist, College of Professional Studies; University of Wisconsin, Platteville, MS

Nicole N. Aljoe

Associate Professor, English; Tufts University, PhD

Michael Allshouse

Assistant Professor, Mechanical and Industrial Engineering; Massachusetts Institute of Technology, PhD

Meryl Alper

Assistant Professor, Communication Studies; University of Southern California, PhD

Neil O. Alper

Associate Professor, Economics; University of Pittsburgh, PhD

Akram N. Alshawabkeh

George A. Snell Professor of Engineering, Civil and Environmental Engineering; Louisiana State University, PhD

Sari Altschuler

Visiting Assistant Professor, English; City University of New York, PhD

George O. Alverson

Associate Professor, Physics; University of Illinois, Urbana-Champaign, PhD

Steven Amato

Associate Teaching Professor, College of Professional Studies; Boston College, PhD

Jane Amidon

Professor, Architecture; Harvard University, MLA

Mansoor M. Amiji

University Distinguished Professor, Pharmaceutical Sciences; Purdue University, PhD

Mahshid Amirabadi

Assistant Professor, Electrical and Computer Engineering; Texas AM University, PhD

Won-Hee An

Lecturer, Music; Boston University, DMA

James S. Anderson

Lecturer, Music; Berklee College of Music, BM

Teiichi Ando

Professor, Mechanical and Industrial Engineering; Colorado School of Mines, PhD

Rae Andre

Professor, Management and Organizational Development; University of Michigan, PhD

Jonathan Andrew

Associate Cooperative Education Coordinator, College of Social Sciences and Humanities; SIT Graduate Institute, MA

Edwin C. Andrews

Associate Professor, Art + Design; Indiana University, MFA

Nasim Annabi

Assistant Professor, Chemical Engineering; University of Sydney (Australia), PhD

Daniel Archabal

Senior Academic Specialist, Accounting; University of Pittsburgh, MBA

Arnold Arluke

Professor, Sociology and Anthropology; New York University, PhD

Carmen G. Armengol

Associate Professor, Applied Psychology; Pennsylvania State University, PhD

Richard Arrowood

Associate Teaching Professor, College of Professional Studies; Massachusetts School of Law, JD

Cheryl Arruda

Assistant Cooperative Education Coordinator, College of Engineering; Northeastern University, MEd

Susan Asai

Associate Professor, Music; University of California, Los Angeles, PhD

Lori Ashline

Assistant Teaching Professor, College of Professional Studies; Western New England University School of Law, JD

Javed A. Aslam

Professor, Computer and Information Science; Massachusetts Institute of Technology, PhD

Yernat Assylbekov

Postdoctoral Teaching Associate, Mathematics; University of Washington, PhD

Anand Asthagiri

Associate Professor, Bioengineering; Massachusetts Institute of Technology, PhD

Nicholas Athanassiou

Associate Professor, International Business and Strategy; University of South Carolina, PhD

Polly Attwood

Associate Teaching Professor, Education; Harvard University, EdD

John Auerbach

Professor of the Practice, Institute on Urban Health Research; Boston University, MBA

Debra Auguste

Professor, Chemical Engineering; Princeton University, PhD

Earlene Avalon

Assistant Teaching Professor, College of Professional Studies; Simmons College, PhD

Cheryl Avitabile

Assistant Clinical Professor, Nursing; Massachusetts General Hospital Institute of Health Professions, DNP

Joseph L. Ayers

Professor, Marine and Environmental Sciences; University of California, Santa Cruz, PhD

B**Kenneth P. Baclawski**

Associate Professor, Computer and Information Science; Harvard University, PhD

Sophie Bacq

Assistant Professor, Entrepreneurship and Innovation; Louvain School of Management (Belgium), PhD

Robert Baginski

Assistant Clinical Professor, Physician Assistant Program; University of Connecticut, DSc

Rekha Bai

Lecturer, Mathematics; University of Iowa, PhD

Moya Bailey

Assistant Professor, English; Emory University, PhD

Richard H. Bailey

Professor, Marine and Environmental Sciences; University of North Carolina, Chapel Hill, PhD

Wendy Bailey

Associate Professor, Accounting; University of Pittsburgh, PhD

Carolyn Bair

Assistant Teaching Professor, College of Professional Studies; Loyola University, Chicago, PhD

Ambika Bajpayee

Assistant Professor, Bioengineering; Massachusetts Institute of Technology, PhD

Allison Baker

Lecturer, Psychology; Northeastern University, PhD

Julie Baker

Associate Teaching Professor, English; Southern New Hampshire University, MFA

Apostolia Baki

Research Assistant Professor, Pharmaceutical Sciences; University of Athens (Greece), PhD

Charles Bame-Aldred

Associate Academic Specialist, Accounting; University of Massachusetts, Amherst, PhD

Elitsa Banalieva

Associate Professor and Gary Gregg Faculty Fellow, International Business and Strategy; Indiana University, PhD

Debra Bangs

Assistant Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Massachusetts General Hospital Institute of Health Professions, DPT

Brendan Bannister

Associate Professor, Management and Organizational Development; Kent State University, DBA

Arun Bansil

University Distinguished Professor, Physics; Harvard University, PhD

Albert-Laszlo Barabasi

Robert Gray Dodge Professor of Network Science and University Distinguished Professor, Computer and Information Science and Physics; Boston University, PhD

Amy Barber

Postdoctoral Teaching Associate, Communication Studies; University of Wisconsin, Madison, PhD

Emanuela Barberis

Associate Professor, Physics; University of California, Santa Cruz, PhD

G. Elise Barboza

Assistant Professor, African-American Studies and Criminology and Criminal Justice; Michigan State University, PhD

Gloria Barczak

Professor, Marketing; Syracuse University, PhD

Jay Bardhan

Assistant Professor, Mechanical and Industrial Engineering; Massachusetts Institute of Technology, PhD

Cynthia L. Baron

Associate Academic Specialist, College of Professional Studies; Northeastern University, MBA

Amílcar A. Barreto Jr.

Associate Professor, Political Science; State University of New York, Buffalo, PhD

Yakov Bart

Assistant Professor, Marketing; University of California, Berkeley, PhD

Stefano Basagni

Associate Professor, Electrical and Computer Engineering; University of Texas, Dallas, PhD

Marla Baskerville

Assistant Professor, Management and Organizational Development; Tulane University, PhD

John Basl

Assistant Professor, Philosophy and Religion; University of Wisconsin, Madison, PhD

Maureen Basmajian

Associate Cooperative Education Coordinator, D'Amore-McKim School of Business; Boston College, MBA

Linnea M. Basu

Assistant Cooperative Education Coordinator, College of Social Sciences and Humanities; Northeastern University, MS

Oleg Batishchev

Professor of the Practice, Physics; Moscow Institute of Physics and Technology (Russia), PhD

Christopher E. Beasley

Associate Professor, Mathematics; Princeton University, PhD

Nicholas Beauchamp

Assistant Professor, Political Science; New York University, PhD

Michelle A. Beauchesne

Associate Professor, Nursing; Boston University, DNSc

Mike Beaudet

Professor of the Practice, Journalism; Northeastern University, MS

Gail S. Begley

Teaching Professor, Biology; Boston University, PhD

Mehdi Behroozi

Assistant Professor, Mechanical and Industrial Engineering; University of Minnesota, PhD

Edward Beighley

Associate Professor, Civil and Environmental Engineering; University of Maryland, PhD

Kerri Beiswenger

Associate Cooperative Education Coordinator, College of Engineering; Northeastern University, MBA

Bianca T. Belcher

Assistant Clinical Professor, Physician Assistant Program; Northeastern University, MS

Leo Beletsky

Assistant Professor, Health Sciences and Law; Temple University, JD

Carole Bell

Assistant Professor, Communication Studies; University of North Carolina, Chapel Hill, PhD

Chiara Bellini

Assistant Professor, Bioengineering; University of Calgary (Canada), PhD

Sidi Bencherif

Assistant Professor, Chemical Engineering; Carnegie Mellon University, PhD

Jonathan Benda

Lecturer, English; Syracuse University, PhD

Elizabeth Bennett

Associate Teaching Professor, Education; University of Georgia, PhD

James C. Benneyan

Professor, Mechanical and Industrial Engineering; University of Massachusetts, Amherst, PhD

Iris Berent

Professor, Psychology; University of Pittsburgh, PhD

Kostia Bergman

Associate Professor, Biology; California Institute of Technology, PhD

Dionisio Bernal

Professor, Civil and Environmental Engineering; University of Tennessee, PhD

Eugene A. Bernstein

Associate Teaching Professor, Pharmaceutical Sciences; Ivanovo Medical Institute (Russia), PhD

Craig T. Bettinson

Director of Cooperative Education, College of Arts, Media and Design; Northeastern University, MEd

Penny Beuning

Associate Professor, Chemistry and Chemical Biology; University of Minnesota, PhD

Peter Bex

Professor, Psychology; Cardiff University (United Kingdom), PhD

Dapeng Bi

Assistant Professor, Physics; Brandeis University, PhD

Timothy Bickmore

Professor, Computer and Information Science; Massachusetts Institute of Technology, PhD

Ricardo Binetti

Assistant Academic Specialist, World Languages Center; University of Massachusetts, Amherst, MA

Allan Bird

Brodsky Trustee Professor of Global Business, International Business and Strategy; University of Oregon, PhD

Donna M. Bishop

Professor, Criminology and Criminal Justice; State University of New York, Albany, PhD

Nathan Blake

Associate Teaching Professor, Media and Screen Studies; University of California, PhD

Samuel J. Blank

Professor, Mathematics; Brandeis University, PhD

Robert J. Blaser

Associate Cooperative Education Coordinator, Bouvé College of Health Sciences; Massachusetts College of Pharmacy, MS

Martin H. Blatt

Professor of the Practice, History; Boston University, PhD

Francis C. Blessington

Professor, English; Brown University, PhD

Cameron Blevis

Assistant Professor, History; Stanford University, PhD

Aaron S. Block

Assistant Teaching Professor, English; Emerson College, MFA

Barry Bluestone

Russell B. and Andrée B. Stearns Trustee Professor of Political Economy, Public Policy and Urban Affairs; University of Michigan, PhD

Linda M. Blum

Professor, Sociology and Anthropology; University of California, Berkeley, PhD

Rhonda M. Board

Associate Professor, Nursing; Ohio State University, PhD

Janet Bobcean

Associate Professor, Theatre; Ohio University, MFA

Erika M. Boeckeler

Assistant Professor, English; Harvard University, PhD

Charles Bognanni

Senior Cooperative Education Coordinator, D'Amore-McKim School of Business; Northeastern University, MEd

Norman R. Boisse

Associate Professor, Pharmaceutical Sciences; Cornell University, PhD

Paul J. Bolster

Professor, Finance; Virginia Polytechnic Institute, PhD

Alice Bonner

Associate Professor, Nursing; University of Massachusetts, Worcester, PhD

Lorraine A. Book

Assistant Clinical Professor, Communication Sciences and Disorders; Florida State University, PhD

Raymond G. Booth

Professor, Pharmaceutical Sciences and Chemistry and Chemical Biology; University of California, San Francisco, PhD

Michelle Borkin

Assistant Professor, Computer and Information Science; Harvard University, PhD

Natalie Bormann

Associate Teaching Professor, Political Science; University of Newcastle upon Tyne (United Kingdom), PhD

Jeffery A. Born

Professor, Finance; University of North Carolina, Chapel Hill, PhD

Christopher J. Bosso

Professor, Public Policy and Urban Affairs; University of Pittsburgh, PhD

Ekaterina Botchkovar

Associate Professor, Criminology and Criminal Justice; North Carolina State University, PhD

Kevin Boudreau

Associate Professor, Entrepreneurship and Innovation; Massachusetts Institute of Technology, PhD

Alma L. Bournazian

Associate Academic Specialist, World Languages Center; Western Maryland College, MS

Stacey Bourns

Professor, College of Social Sciences and Humanities; University of Texas, Austin, PhD

Carla Bouwmeester

Associate Clinical Professor, Pharmacy and Health Systems Sciences; Massachusetts College of Pharmacy, PharmD

Jennifer Bowen

Associate Professor, Marine and Environmental Sciences; Boston University, PhD

James Boyer

Assistant Academic Specialist, Accounting; Northeastern University, MBA

Nicole M. Boyson

Associate Professor and William Conley Faculty Fellow, Finance; Ohio State University, PhD

Kara Braciale

Lecturer, Art + Design; University of Illinois, Chicago, MFA

Anthony Braga

Distinguished Professor, School of Criminology and Criminal Justice; Rutgers University, PhD

Maxim Braverman

Professor, Mathematics; Tel Aviv University (Israel), PhD

Heather Brenhouse

Assistant Professor, Psychology; Northeastern University, PhD

Janet Briand-McGowan

Assistant Clinical Professor, Nursing; Northeastern University, DNP

Becky A. Briesacher

Associate Professor, Pharmacy and Health Systems Sciences; University of Maryland, Baltimore, PhD

Amy M. Briesch

Associate Professor, Applied Psychology; University of Connecticut, PhD

Elizabeth C. Britt

Associate Professor, English; Rensselaer Polytechnic Institute, PhD

Sharon M. Britton

Assistant Cooperative Education Coordinator, College of Engineering; Massachusetts Institute of Technology, MS

Bonnie Brock

Associate Cooperative Education Coordinator, D'Amore-McKim School of Business; University of Vermont, MEd

Oscar T. Brookins

Associate Professor, Economics; State University of New York, Buffalo, PhD

Dana H. Brooks

Professor, Electrical and Computer Engineering; Northeastern University, PhD

Cammy Brothers

Associate Professor, Architecture and Art + Design; Harvard University, PhD

Michael E. Brown

Professor, Sociology and Anthropology; University of Michigan, JD, PhD

Philip M. Brown

Professor, Sociology and Anthropology and Health Sciences; Brandeis University, PhD

Ronald Brown

Assistant Teaching Professor, College of Professional Studies; Harvard University, EdD

Timothy S. Brown

Professor, History; University of California, Berkeley, PhD

Todd A. Brown

Clinical Instructor, Pharmacy and Health Systems Sciences; Northeastern University, MHP

Corliss Brown-Thompson

Assistant Teaching Professor, College of Professional Studies; University of North Carolina, Chapel Hill, PhD

Maria Brucato

Associate Academic Specialist, World Languages Center; University of Texas, PhD

Elizabeth M. Bucar

Associate Professor, Philosophy and Religion; University of Chicago, PhD

David E. Budil

Associate Professor, Chemistry and Chemical Biology; University of Chicago, PhD

Mindelyn Buford II

Assistant Professor, Sociology and Anthropology; Johns Hopkins University, PhD

Lucy Bunning

Assistant Teaching Professor, College of Professional Studies; Lesley University, PhD

Jeffrey Burds

Associate Professor, History; Yale University, PhD

Lynn H. Burke

Senior Cooperative Education Coordinator, College of Arts, Media and Design; University of Massachusetts, Amherst, MEd

Pamela J. Burke

Clinical Professor, Nursing; Boston College, PhD

Jose Buscaglia

Professor, Languages, Literatures, and Cultures; University of Buffalo, PhD

Jeremy P. Bushnell

Assistant Teaching Professor, English; University of Arizona, Tucson, MFA

Ahmed A. Busnaina

William Lincoln Smith Professor of Mechanical Engineering, Mechanical and Industrial Engineering; Oklahoma State University, PhD

Michael Butera

Clinical Instructor, Nursing; Northeastern University, MS

C**Victoria Cain**

Assistant Professor, History; Columbia University, PhD

Paula Caligiuri

Distinguished Professor of Global Leadership, International Business and Strategy; Pennsylvania State University, PhD

Lisa Campagnoni

Assistant Cooperative Education Coordinator, College of Science; Northeastern University, MA

Octavia Camps

Professor, Electrical and Computer Engineering; University of Washington, PhD

Clinton Canal

Research Assistant Professor, Pharmaceutical Sciences; University of Illinois, PhD

Yanet Canavan

Assistant Academic Specialist, World Languages Center; Salem State College, MA

Kristopher Cannon

Assistant Teaching Professor, Media and Screen Studies; Georgia State University, PhD

Alessandro Canossa

Associate Professor, Game Design; Royal Danish Academy of Fine Arts (Netherlands), PhD

Mira Cantor

Professor, Art + Design; University of Illinois, Urbana-Champaign, MFA

Michele Cao-Danh

Associate Academic Specialist, World Languages Center; Boston University, PhD

Luca Caracoglia

Associate Professor, Civil and Environmental Engineering; University of Trieste (Italy), PhD

Benjamin Caras

Lecturer, Art + Design; University of Massachusetts, Amherst, MFA

Amy M. Carleton

Visiting Lecturer, English; Northeastern University, PhD

Joelle Carlo

Assistant Teaching Professor, Pharmaceutical Sciences; State University of New York, Buffalo, PhD

Alexa A. Carlson

Assistant Clinical Professor, Pharmacy and Health Systems Sciences; Butler University, PharmD

Mary Carney

Associate Cooperative Education Coordinator, Bouvé College of Health Sciences; Boston College, MSN

Heather Carpenter

Assistant Cooperative Education Coordinator, College of Engineering; Northeastern University, MS

Jonathan Carr

Assistant Teaching Professor, Theatre; Columbia University, MFA

Michelle Carr

Lecturer, Communication Studies; Kingston University (United Kingdom), MA

Rebecca L. Carrier

Associate Professor, Chemical Engineering; Massachusetts Institute of Technology, PhD

Patricia Case

Assistant Teaching Professor, Health Sciences; Harvard University, ScD

Ana-Maria Castravet

Associate Professor, Mathematics; Massachusetts Institute of Technology, PhD

Smajl Cenjic

Assistant Cooperative Education Coordinator, Computer and Information Science; Cambridge College, MA

Robert J. Cersosimo

Associate Professor, Pharmacy and Health Systems Sciences; University of Utah, PharmD

Christopher Cesario

Assistant Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Northeastern University, DPT

Yunrong Chai

Assistant Professor, Biology; Cornell University, PhD

Srinath Chakravarthy

Assistant Professor, Mechanical and Industrial Engineering; University of Connecticut, PhD

Christopher Chambers

Lecturer, Sociology and Anthropology; Texas AM University, PhD

Paul M. Champion

Professor, Physics; University of Illinois, Urbana-Champaign, PhD

Chee Chan

Assistant Academic Specialist, Marketing; Michigan State University, PhD

Robin M. Chandler

Associate Professor, African-American Studies; Northeastern University, PhD

Suzanne Charles

Assistant Professor, Architecture; Harvard University, PhD

Yi-Da Chen

Assistant Professor, Supply Chain and Information Management; University of Arizona, PhD

Esther Chewning

Associate Cooperative Education Coordinator, D'Amore-McKim School of Business; Suffolk University, MS

Elizabeth A. Chilvers

Associate Professor, Cooperative Education, D'Amore-McKim School of Business; Northeastern University, MEd

W. Paul Chiou

Assistant Teaching Professor, Finance; Rutgers University, PhD

David R. Choffnes

Assistant Professor, Computer and Information Science; Northwestern University, PhD

Sam S. Choi

Associate Teaching Professor, Architecture; Harvard University, MArch

Sunho Choi

Assistant Professor, Chemical Engineering; University of Minnesota, PhD

Chun-An Chou

Assistant Professor, Mechanical and Industrial Engineering; Rutgers University, PhD

Kaushik Roy Chowdhury

Associate Professor, Electrical and Computer Engineering; University of Cincinnati, MS

Ken Chung

Assistant Teaching Professor, Chemistry and Chemical Biology; Michigan State University, PhD

Hillary Chute

Professor, English; Rutgers University, PhD

John W. Cipolla Jr.

Donald W. Smith Professor of Mechanical Engineering and College of Engineering Distinguished Professor, Mechanical and Industrial Engineering; Brown University, PhD

Dawn M. Cisewski

Assistant Teaching Professor, Psychology; Indiana University of Pennsylvania, PsyD

Bruce H. Clark

Associate Professor, Marketing; Stanford University, PhD

Edmund L. Clark

Associate Academic Specialist, Entrepreneurship and Innovation; Clark University, MBA

Heather Clark

Professor, Pharmaceutical Sciences; University of Michigan, PhD

Sean Clark

Postdoctoral Teaching Associate, Mathematics; University of Virginia, PhD

Stephen B. Clark

Assistant Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Northeastern University, DPT

Alan Clayton-Matthews

Associate Professor, Public Policy and Urban Affairs and Economics; Boston College, PhD

Sandra S. Cleveland

Associate Clinical Professor, Communication Sciences and Disorders; Pennsylvania College of Optometry, AuD

William D. Clinger

Associate Professor, Computer and Information Science; Massachusetts Institute of Technology, PhD

Paul Closas

Assistant Professor, Electrical and Computer Engineering; Universitat Politècnica de Catalunya (Spain), PhD

Irina Cojuharenco

Assistant Teaching Professor, Management and Organizational Development; Universitat Pompeu Fabra (Spain), PhD

Dennis R. Cokely

Professor, American Sign Language and Languages, Literatures, and Cultures and World Languages Center; Georgetown University, PhD

Maxine Cokely

Associate Academic Specialist, College of Professional Studies; Bowie State University, MEd

Stephanie Colby

Assistant Teaching Professor, College of Professional Studies; Eastern University, PhD

John D. Coley

Associate Professor, Psychology; University of Michigan, PhD

C. Randall Colvin

Associate Professor, Psychology; University of Illinois, Urbana-Champaign, PhD

Sally Conant

Assistant Cooperative Education Coordinator, College of Engineering; Salve Regina University, MA

Michelle Conceison

Assistant Teaching Professor, Music; Simmons College, MBA

Michael Conley

Assistant Clinical Professor, Pharmacy and Health Systems Sciences; Northeastern University, PharmD

Richard C. Conley

Assistant Cooperative Education Coordinator, College of Social Sciences and Humanities; Boston University, JD

Kelly Conn

Assistant Teaching Professor, College of Professional Studies; Boston University, PhD

Carol Connolly

Clinical Instructor, Nursing; Northeastern University, MS

Gregory Connolly

Research Professor, Law and Health Sciences; Tufts University, PhD

James J. Connolly

Assistant Professor, Public Policy and Urban Affairs and Political Science; Columbia University, PhD

Adam Cooper

Lecturer, Linguistics; Cornell University, PhD

Seth Cooper

Assistant Professor, Computer and Information Science; University of Washington, PhD

Gene D. Cooperman

Professor, Computer and Information Science; Brown University, PhD

Debra Copeland

Associate Clinical Professor, Pharmacy and Health Systems Sciences; University of Rhode Island, PharmD

Ryan C. Cordell

Assistant Professor, English; University of Virginia, PhD

Marie B. Corkery

Associate Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Northeastern University, DPT

Felipe Cortes

Assistant Professor, Finance; Washington University, St. Louis, PhD

Kristen Costa

Assistant Teaching Professor, College of Professional Studies; Northeastern University, EdD

Hugh G. Courtney

Professor, International Business and Strategy; Massachusetts Institute of Technology, PhD

Arthur J. Coury

Professor, Chemical Engineering; University of Minnesota, PhD

Erin Cram

Associate Professor, Biology; University of California, Berkeley, PhD

Frederick Crane

Senior Academic Specialist, Entrepreneurship and Innovation; Bradford University, PhD

Steven Cranford

Assistant Professor, Civil and Environmental Engineering; Massachusetts Institute of Technology, PhD

William F. Crittenden

Professor, International Business and Strategy; University of Arkansas, PhD

Mai'a K. D. Cross

Associate Professor, Political Science; Princeton University, PhD

Christina Crowe

Lecturer, Psychology; Boston College, PhD

Jessica Crowley

Assistant Cooperative Education Coordinator, D'Amore-McKim School of Business; Boston College, MA

Alvaro Cuervo-Cazurra

Professor and Robert Morrison Fellow, International Business and Strategy; Massachusetts Institute of Technology, PhD

Carlos A. Cuevas

Associate Professor, Criminology and Criminal Justice; Alliant International University, PhD

Thomas P. Cullinane

Professor, Mechanical and Industrial Engineering; Virginia Polytechnic Institute and State University, PhD

D**Kamran M. Dadkhah**

Associate Professor, Economics; Indiana University, PhD

Guohao Dai

Associate Professor, Bioengineering; Massachusetts Institute of Technology, PhD

Elise J. Dallimore

Associate Professor, Communication Studies; University of Washington, PhD

James D. Dana Jr.

Professor, Economics and International Business and Strategy; Massachusetts Institute of Technology, PhD

Luis Dau

Associate Professor, International Business and Strategy; University of South Carolina, PhD

Geoffrey Davies

Matthews Distinguished University Professor, Chemistry and Chemical Biology; Birmingham University (United Kingdom), PhD, DSc

Frederick C. Davis

Professor, Biology; University of Texas, Austin, PhD

Michael Davis

Postdoctoral Teaching Associate, Communication Studies; University of Tennessee, PhD

Theo Davis

Associate Professor, English; Johns Hopkins University, PhD

Leslie Day

Assistant Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Northeastern University, PhD

Anthony P. De Ritis

Professor, Music and Entrepreneurship and Innovation; University of California, Berkeley, PhD

Adenekan (Nick) Dedeke

Lecturer, Supply Chain and Information Management; Technische Universität Kaiserslautern (Germany), PhD

Plinio DeGoes

Assistant Academic Specialist, College of Professional Studies; Northwood University, MA

Mohammad Dehghanimohammadabadi

Assistant Teaching Professor, Mechanical and Industrial Engineering; Western New England University, PhD

Richard DeJordy

Assistant Professor, Management and Organizational Development; Boston College, PhD

Candice Delams

Assistant Professor, Political Science and Philosophy; Boston University, PhD

John Dencker

Associate Professor, Management and Organizational Development; Harvard University, PhD

Jack Dennerlein

Professor, Physical Therapy, Movement, and Rehabilitation Sciences; University of California, PhD

Jacob Depue

Postdoctoral Teaching Associate, Communication Studies; University of Minnesota, PhD

Leila Deravi

Assistant Professor, Chemistry and Chemical Biology; Vanderbilt University, PhD

Marco Deseriis

Assistant Professor, Media and Screen Studies; New York University, PhD

Peter J. Desnoyers

Associate Professor, Computer and Information Science; University of Massachusetts, Amherst, PhD

David A. DeSteno

Professor, Psychology; Yale University, PhD

Sebastian Deterding

Assistant Professor, Game Design; Hamburg University (Germany), PhD

H. William Detrich

Professor, Marine and Environmental Sciences; Yale University, PhD

John W. Devlin

Professor, Pharmacy and Health Systems Sciences; University of Toronto (Canada), PharmD

Janet Dewan

Assistant Clinical Professor, Nursing; Northeastern University, PhD

Jacqueline Diani

Senior Cooperative Education Coordinator, Bouvé College of Health Sciences; University of Virginia, MEd

Martin Dias

Assistant Professor, Supply Chain and Information Management; Bentley University, PhD

William T. Dickens

University Distinguished Professor, Economics and Public Policy and Urban Affairs; Massachusetts Institute of Technology, PhD

Alessandra DiCredico

Lecturer, Physics; University of Rome (Italy), PhD

Max Diem

Professor, Chemistry and Chemical Biology; University of Toledo, PhD

Elizabeth Maddock Dillon

Professor, English; University of California, Berkeley, PhD

Charles DiMarzio

Associate Professor, Electrical and Computer Engineering; Northeastern University, PhD

Paul DiMilla

Associate Teaching Professor, Chemistry and Chemical Biology and Chemical Engineering; University of Pennsylvania, PhD

Edward Dinan

Lecturer, Accounting; Harvard University, MS

Aidong Adam Ding

Associate Professor, Mathematics; Cornell University, PhD

Kathleen B. Dioli

Assistant Cooperative Education Coordinator, Chemistry and Chemical Biology; Bowling Green State University, MA

Brandon Dionne

Assistant Clinical Professor, Pharmacy and Health Systems Sciences; University of New England, PharmD

Daniel Distel

Research Professor, Marine and Environmental Sciences; University of California, San Diego, PhD

Margarita V. DiVall

Clinical Professor, Pharmacy and Health Systems Sciences; Northeastern University, PharmD

Lisa Cantwell Doherty

Assistant Cooperative Education Coordinator, College of Social Sciences and Humanities; Northeastern University, MA

Silvia Dominguez

Associate Professor, Sociology and Anthropology; Boston University, PhD

Hua Dong

Associate Academic Specialist, World Languages Center; Emerson College, MA

Brenda Douglas

Associate Clinical Professor, Nursing; Northeastern University, PhD

Mark Douglass

Associate Clinical Professor, Pharmacy and Health Systems Sciences; University of Michigan, PharmD

Kevin M. Drakulich

Assistant Professor, Criminology and Criminal Justice; University of Washington, PhD

Laura Dudley

Clinical Instructor, Applied Psychology; Northeastern University, MS

Molly Dugan

Assistant Teaching Professor, College of Professional Studies; Boston College, PhD

Michael S. Dukakis

Distinguished Professor, Political Science; Harvard University, JD

Daniel M. Dulaski

Associate Teaching Professor, Civil and Environmental Engineering; University of Massachusetts, Amherst, PhD

Catherine Dunand

Assistant Academic Specialist, World Languages Center; Boston University, MA

Joanne Dupuis

Assistant Clinical Professor, Nursing; Massachusetts School of Law, JD

Douglas F. Durant

Lecturer, Music; Brandeis University, PhD

Kathleen Durant

Lecturer, Computer and Information Science; Harvard University, PhD

Jennifer G. Dy

Associate Professor, Electrical and Computer Engineering; Purdue University, PhD

Lauren D'Abrosca

Assistant Cooperative Education Coordinator, Finance; Boston University, MEd

Philip Anthony D'Agati

Associate Teaching Professor, Political Science; Northeastern University, MA

E**Eno Ebong**

Assistant Professor, Chemical Engineering; Rensselaer Polytechnic Institute, PhD

Matthew Eckelman

Assistant Professor, Civil and Environmental Engineering; Yale University, PhD

Kimberly Eddleston

Professor and Daniel and Dorothy Grady Faculty Fellow, Entrepreneurship and Innovation; University of Connecticut, PhD

Scott Edmiston

Professor of the Practice, Theatre; Boston University, MFA

Laurie E. Edwards

Associate Teaching Professor, English; Emerson College, MFA

Jessica Edwards George

Associate Clinical Professor, Applied Psychology; Northeastern University, PhD

Christopher Egan

Assistant Cooperative Education Coordinator, College of Science; Boston University, MA

Jean F. Egan

Associate Cooperative Education Coordinator, College of Social Sciences and Humanities; Northeastern University, MEd

Stanley J. Eigen

Professor, Mathematics; McGill University (Canada), PhD

Adam Ekenseair

Assistant Professor, Chemical Engineering; University of Texas, Austin, PhD

Ehsan Elhamifar

Assistant Professor, Computer and Information Science; Johns Hopkins University, PhD

Simone Elias

Assistant Academic Specialist, World Languages Center; Harvard University, MA

Tina Eliassi-Rad

Associate Professor, Computer and Information Science; University of Wisconsin, Madison, PhD

Ryan Ellis

Assistant Professor, Communication Studies; University of California, San Diego, PhD

Constance Emerson

Assistant Academic Specialist, College of Professional Studies; Purdue University, West Lafayette, MS

John Engen

Professor, Chemistry and Chemical Biology and Barnett Institute; University of Nebraska, Lincoln, PhD

Christen Enos

Lecturer, English; Emerson College, MFA

Slava S. Epstein

Professor, Biology; Moscow State University (Russia), PhD

Randall Erb

Assistant Professor, Mechanical and Industrial Engineering; Duke University, PhD

Deniz Erdogmus

Associate Professor, Electrical and Computer Engineering; University of Florida, PhD

Awatef Ergai

Assistant Teaching Professor, Mechanical and Industrial Engineering; Clemson University, PhD

Ozlem Ergun

Professor, Mechanical and Industrial Engineering; Massachusetts Institute of Technology, PhD

Cuneyt Eroglu

Associate Professor, Supply Chain and Information Management; Ohio State University, PhD

Bilge Erten

Assistant Professor, Economics and International Affairs; University of Massachusetts, Amherst, PhD

Rhea T. Eskew

Professor, Psychology; Georgia Institute of Technology, PhD

Jonathan Esole

Assistant Professor, Mathematics; Leiden University (Netherlands), PhD

Neenah Estrella-Luna

Associate Teaching Professor, College of Professional Studies; Northeastern University, PhD

Sara Ewell

Associate Teaching Professor, College of Professional Studies; University of North Carolina, Chapel Hill, PhD

F

Daniel R. Faber

Professor, Sociology and Anthropology; University of California, Santa Cruz, PhD

Olubunmi Faleye

Professor, Trahan Family Faculty Fellow, and Walsh Research Professor, Finance; University of Alberta (Canada), PhD

Hui Fang

Assistant Professor, Electrical and Computer Engineering; University of California, Berkeley, PhD

Qianqian Fang

Assistant Professor, Bioengineering; Dartmouth University, PhD

David Fannon

Assistant Professor, Architecture and Civil and Environmental Engineering; University of California, Berkeley, MS Arch

Nasser S. Fard

Associate Professor, Mechanical and Industrial Engineering; University of Arizona, PhD

Amir Farhat

Associate Teaching Professor, Electrical and Computer Engineering; University of Pennsylvania, PhD

Amy S. Farrell

Associate Professor, Criminology and Criminal Justice; Northeastern University, PhD

Christopher Featherman

Assistant Teaching Professor, English; University of Washington, PhD

Mary Federico

Assistant Cooperative Education Coordinator, College of Engineering; Indiana University, MS

Yunsi Fei

Associate Professor, Electrical and Computer Engineering; Princeton University, PhD

Adrian Feiguin

Assistant Professor, Physics; Universidad Nacional de Rosario (Argentina), PhD

Daniel Feinberg

Assistant Clinical Instructor, Computer and Information Science and Health Sciences; Boston University, MBA

Allen G. Feinstein

Teaching Professor, Music; New England Conservatory of Music, MM

Nathan I. Felde

Professor, Art + Design; Massachusetts Institute of Technology, MS

Lisa Feldman Barrett

University Distinguished Professor, Psychology; University of Waterloo (Canada), PhD

Matthias Felleisen

Trustee Professor, Computer and Information Science; Indiana University, PhD

Samuel Felton

Assistant Professor, Mechanical and Industrial Engineering; Harvard University, PhD

Carol Femia

Clinical Instructor, Nursing; Massachusetts General Hospital Institute of Health Professions, MS

Hicham Fenniri

Professor, Chemical Engineering; Université de Strasbourg (France), PhD

Loretta A. Fernandez

Assistant Professor, Civil and Environmental Engineering and Marine and Environmental Sciences; Massachusetts Institute of Technology, PhD

Waththage Neranga Fernando

Lecturer, Mathematics; University of South Florida, PhD

Craig F. Ferris

Professor, Psychology and Pharmaceutical Sciences; New York Medical College, PhD

Kirsten Fertuck

Assistant Teaching Professor, Biochemistry; Michigan State University, PhD

Susan F. Fine

Clinical Instructor, Communication Sciences and Disorders; New York University, MA

Sarah Finn

Assistant Teaching Professor, English; University of Massachusetts, Amherst, PhD

Branden Fitelson

Distinguished Professor, Philosophy and Religion; California Institute of Technology, PhD

Brian Fitzgerald

Assistant Professor, Accounting; Texas AM University, PhD

Joan Fitzgerald

Professor, Law and Public Policy and Public Policy and Urban Affairs; Pennsylvania State University, PhD

John E. Fitzmaurice

Assistant Cooperative Education Coordinator, College of Engineering; College of William and Mary, MBA

Diane F. Fitzpatrick

Associate Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Northeastern University, DPT

Julia H. Flanders

Professor of the Practice, English and University Libraries; Brown University, PhD

Peggy L. Fletcher

Lecturer, Finance; University of Pittsburgh, MBA

Ann Marie Flores

Assistant Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Ohio State University, PhD

Marcial Flores

Assistant Academic Specialist, World Languages Center; Boston College, MA

Eric Folmar

Assistant Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Northeastern University, DPT

Paul Fombelle

Associate Professor, Marketing; Arizona State University, PhD

Murray Forman

Professor, Media and Screen Studies; McGill University (Canada), PhD

Lisa M. Foster

Assistant Cooperative Education Coordinator, Bouvé College of Health Sciences; Northeastern University, MS

Dimitrios Fotiadis

Lecturer, Supply Chain and Information Management; Northeastern University, MS

Brooke Foucault Welles

Assistant Professor, Communication Studies; Northwestern University, PhD

Charles F. Fountain

Associate Professor, Journalism; Columbia University, MS

William M. Fowler Jr.

Distinguished Professor, History; University of Notre Dame, PhD

James Alan Fox

Lipman Family Professor, Criminology and Criminal Justice and Law and Public Policy; University of Pennsylvania, PhD

Laura L. Frader

Professor, History; University of Rochester, PhD

Debra L. Franko

Professor, Applied Psychology; McGill University (Canada), PhD

Susan Freeman

Teaching Professor, Engineering; Northeastern University, PhD

Clark Freifeld

Lecturer, Computer and Information Science; Boston University, PhD

Michael Frengel

Associate Academic Specialist, Music; City University London (United Kingdom), PhD

John H. Friar

Senior Academic Specialist, Entrepreneurship and Innovation; Massachusetts Institute of Technology, PhD

Natasha Frost

Associate Professor, Criminology and Criminal Justice; City University of New York, PhD

Yun (Raymond) Fu

Assistant Professor, Electrical and Computer Engineering and Computer and Information Science; University of Illinois, Urbana-Champaign, PhD

Brian Fulton

Lecturer, Chemistry and Chemical Biology; Iowa State University, PhD

Peter G. Furth

Professor, Civil and Environmental Engineering; Massachusetts Institute of Technology, PhD

G**Terence J. Gaffney**

Professor, Mathematics; Brandeis University, PhD

Timothy Gagnon

Associate Academic Specialist, Accounting; Sacred Heart University, MBA

Ronen Gal-Or

Assistant Professor, Accounting; University of Arizona, PhD

Chris W. Gallagher

Professor, English; University of New York, Albany, PhD

Susan Gallagher

Clinical Instructor, Nursing; Massachusetts General Hospital Institute of Health Professions, MS

Auroop Ganguly

Associate Professor, Civil and Environmental Engineering; Massachusetts Institute of Technology, PhD

Denise Garcia

Associate Professor, Political Science and International Affairs; University of Geneva (Switzerland), PhD

Lori Gardinier

Associate Teaching Professor, Human Services; Northeastern University, PhD

Karen Garneau

Associate Teaching Professor, English; Northeastern University, PhD

Samuel John Gatley

Professor, Pharmaceutical Sciences; University of Newcastle upon Tyne (United Kingdom), PhD

Nicole Georgallas

Lecturer, Communication Studies; Emerson College, MA

Prasanth George

Assistant Teaching Professor, Mathematics; State University of New York, Buffalo, PhD

Carleton Gholz

Postdoctoral Teaching Associate, Communication Studies; University of Pittsburgh, PhD

Roger W. Giese

Professor, Pharmaceutical Sciences; Massachusetts Institute of Technology, PhD

Joseph M. Giglio

Senior Academic Specialist, International Business and Strategy; Northeastern University, PhD

Richard Gilbert

Research Professor, Chemistry and Chemical Biology; New Jersey Medical School, PhD

Thomas R. Gilbert

Associate Professor, Chemistry and Chemical Biology; Massachusetts Institute of Technology, PhD

Laurance Ginsberg

Assistant Academic Specialist, Accounting; Bentley University, MST

Leonard J. Glick

Senior Academic Specialist, Management and Organizational Development; Harvard University, EdD

Veronica Godoy-Carter

Associate Professor, Biology; Tufts University, PhD

Michael Bradford Goetz

Assistant Teaching Professor, Architecture; University of Pennsylvania, MLA

Kevin Gold

Lecturer, Computer and Information Science; Yale University, PhD

Natalia Gold

Assistant Teaching Professor, International Business and Strategy; Saint Petersburg State University of Engineering (Russia), PhD

Susan Gold

Professor of the Practice, Game Design; Visual Studies Workshop, MS

Donald Goldthwaite

Assistant Teaching Professor, Engineering; Northeastern University, MS

Ann C. Golub-Victor

Associate Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Northeastern University, DPT

Edgar D. Goluch

Associate Professor, Chemical Engineering; University of Illinois, Urbana-Champaign, PhD

Kathleen R. Gonso

Associate Teaching Professor, English; Emerson College, MFA

Michael J. Gonyeau

Clinical Professor, Pharmacy and Health Systems Sciences; Albany College of Pharmacy, PharmD

Gregory Goodale

Associate Professor, Communication Studies; University of Illinois, Urbana-Champaign, PhD

Pamela W. Goodale

Senior Cooperative Education Coordinator, College of Arts, Media and Design; Boston College, MA

Teresa Goode

Assistant Teaching Professor, College of Professional Studies; Columbia University, EdD

Patricia Goodman

Assistant Teaching Professor, College of Professional Studies; George Washington University, EdD

Matthew Goodwin

Assistant Professor, Health Sciences and Health Informatics; University of Rhode Island, PhD

Mark Gooley

Lecturer, Finance; Northwestern University, MM

Margaret Gorman Kirchoff

Assistant Teaching Professor, College of Professional Studies; George Washington University, EdD

Gary Goshgarian

Professor, English; University of Wisconsin, Madison, PhD

Tarik Gouhier

Assistant Professor, Marine and Environmental Sciences; McGill University (Canada), PhD

Robson Goulart

Assistant Cooperative Education Coordinator, College of Engineering; Boston University, MS

Andrew Gouldstone

Associate Professor, Mechanical and Industrial Engineering; Massachusetts Institute of Technology, PhD

Eugene H. Gover

Associate Professor, Mathematics; Brandeis University, PhD

Jonathan H. Grabowski

Associate Professor, Marine and Environmental Sciences; University of North Carolina, Chapel Hill, PhD

Susan Gracia

Assistant Teaching Professor, College of Professional Studies; Boston College, PhD

Matthew Gray

Assistant Professor, Theatre; London Academy of Music and Dramatic Arts (United Kingdom), MFA

Laura Green

Professor, English; University of California, Berkeley, PhD

Jack R. Greene

Professor, Criminology and Criminal Justice; Michigan State University, PhD

Kristin Curry Greenwood

Associate Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Northeastern University, DPT

Daniel S. Gregory

Senior Academic Specialist, Entrepreneurship and Innovation and Art + Design; Harvard University, MBA

Sara Grier

Assistant Cooperative Education Coordinator, College of Engineering; Northeastern University, MS

Brent Griffin

Assistant Teaching Professor, CPS International Programs; Northeastern University, PhD

Jacqueline Griffin

Assistant Professor, Mechanical and Industrial Engineering; Georgia Institute of Technology, PhD

Joseph Griffin

Associate Teaching Professor, Project Management; Gordon-Conwell Theological Seminary, South Hamilton, DMin

John Griffith

Clinical Professor, Applied Psychology; Boston University, PhD

Amir Grinstein

Associate Professor, Marketing; Hebrew University of Jerusalem (Israel), PhD

Francesca Grippa

Associate Teaching Professor, College of Professional Studies; University of Salento (Italy), PhD

Craig Gruber

Assistant Teaching Professor, College of Professional Studies; Clark University, PhD

April Gu

Associate Professor, Civil and Environmental Engineering; University of Washington, PhD

Tiantian Gu

Assistant Professor, Finance; University of Wisconsin, Madison, PhD

Jason Guo

Associate Research Professor, Pharmaceutical Sciences; University of Connecticut, Storrs, PhD

Surendra M. Gupta

Professor, Mechanical and Industrial Engineering; Purdue University, PhD

Barbara Guthrie

Professor, Nursing; New York University, PhD

H**Mohamed Habibullah**

Assistant Teaching Professor, Supply Chain and Information Management; University of Missouri, Columbia, PhD

David Hagen

Assistant Teaching Professor, College of Professional Studies; New England School of Law, JD

Jerome F. Hajjar

Professor, Civil and Environmental Engineering; Cornell University, PhD

Judith A. Hall

University Distinguished Professor, Psychology; Harvard University, PhD

Robert L. Hall

Associate Professor, African-American Studies and History; Florida State University, PhD

James Halverson

Assistant Professor, Physics; University of Pennsylvania, PhD

Pauline Hamel

Associate Clinical Professor, Health Sciences; Boston University, EdD

Scott R. Hamilton

Associate Cooperative Education Coordinator, College of Engineering; Stanford University, PhD

William S. Hancock

Raymond and Claire Bradstreet Chair, Chemistry and Chemical Biology; University of Adelaide (Australia), PhD

Michael J. Handel

Associate Professor, Sociology and Anthropology; Harvard University, PhD

Nancy Hanrahan

Professor, Nursing; Boston College, PhD

Bonnie Jo Hanson

Assistant Clinical Professor, Physician Assistant Program; University of New England, MS

Robert N. Hanson

Matthews Distinguished University Professor, Chemistry and Chemical Biology; University of California, Berkeley, PhD

Stephen G. Harkins

Professor, Psychology; University of Missouri, PhD

Sharon Harlan

Professor, Health Sciences; Cornell University, PhD

Kelly Harrington

Assistant Cooperative Education Coordinator, D'Amore-McKim School of Business; Suffolk University, MBA

Shaunna Harrington

Associate Academic Specialist, College of Professional Studies; Boston University, MAT

Vincent Harris

William Lincoln Smith Professor of Electrical and Computer Engineering, Electrical and Computer Engineering; Northeastern University, PhD

Vanecia Harrison-Sanders

Associate Cooperative Education Coordinator, Bouvé College of Health Sciences and College of Science; Emmanuel College, MA

Casper Hartevelde

Assistant Professor, Game Design; Delft University of Technology (Netherlands), PhD

Christopher Hasson

Assistant Professor, Physical Therapy, Movement, and Rehabilitation Sciences; University of Massachusetts, Amherst, PhD

Bradley Hatfield

Assistant Teaching Professor, Music; Cambridge College, MM

Stephanie Hattoy

Assistant Clinical Professor, Pharmacy and Health Systems Sciences; University of Rhode Island, PharmD

Heather Hauck

Associate Cooperative Education Coordinator, D'Amore-McKim School of Business; Northeastern University, MS

Thomas Havens

Professor, History; University of California, Berkeley, PhD

Lorna Hayward

Associate Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Boston University, EdD

Ni He

Associate Professor, Criminology and Criminal Justice; University of Nebraska, Omaha, PhD

Julia Hechtman

Lecturer, Art + Design; University of Illinois, Chicago, MFA

Inez Hedges

Professor, Languages, Literatures, and Cultures; University of Wisconsin, Madison, PhD

Gretchen A. Heefner

Assistant Professor, History; Yale University, PhD

Donald E. Heiman

Professor, Physics; University of California, Irvine, PhD

Ferdinand L. Hellweger

Associate Professor, Civil and Environmental Engineering; Columbia University, EngScD

Brian Helmuth

Professor, Marine and Environmental Sciences and Public Policy and Urban Affairs; University of Washington, PhD

Carlene Hempel

Assistant Teaching Professor, Journalism; University of North Carolina, Chapel Hill, MA

Dale Herbeck

Professor, Communication Studies; University of Iowa, PhD

David A. Herlihy

Teaching Professor, Music; Boston College, JD

Catalina Herrera Almanza

Assistant Professor, Economics and International Affairs; Cornell University, PhD

Carie Hersh

Assistant Teaching Professor, Sociology and Anthropology; Duke University, JD

Julie Hertenstein

Associate Professor, Accounting; Harvard University, DBA

Joshua Hertz

Assistant Teaching Professor, Engineering; Massachusetts Institute of Technology, PhD

Mary J. Hickey

Associate Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Northeastern University, DPT

Carlos Hidrovo Chavez

Assistant Professor, Mechanical and Industrial Engineering; Massachusetts Institute of Technology, PhD

Malcolm D. Hill

Associate Professor, Marine and Environmental Sciences; University of California, Santa Cruz, PhD

Charles Hillman

Professor, Psychology and Health Sciences; University of Maryland, College Park, PhD

Elizabeth Hirsch

Assistant Professor, Pharmacy and Health Systems Sciences; Creighton University, PharmD

Leslie Hitch

Associate Teaching Professor, College of Professional Studies; University of Massachusetts, Boston, EdD

Hubert Ho

Lecturer, Music; University of California, Berkeley, PhD

Marie Odile Hobeika

Postdoctoral Teaching Associate, Communication Studies; University of Pittsburgh, PhD

Lynda Hodgson

Assistant Teaching Professor, College of Professional Studies; Virginia Commonwealth University, PhD

Timothy J. Hoff

Associate Professor, Management and Organizational Development and Public Policy and Urban Affairs; Rockefeller College, PhD

Jessica Hoffman

Associate Professor, Applied Psychology; Lehigh University, PhD

Udi Hoitash

Associate Professor and Denise and Robert DiCenso Term Fellow, Accounting; Rutgers University, PhD

Trenton Honda

Assistant Clinical Professor, Physician Assistant Program; Saint Francis University, MS

Michael J. Hoppmann

Assistant Teaching Professor, Communication Studies; University of Tübingen (Germany), PhD

Elizabeth M. Howard

Associate Professor, Nursing; Boston College, PhD

Jeffrey P. Howe

Assistant Professor, Journalism; Boston University, MFA

Hanchen Huang

Professor, Mechanical and Industrial Engineering; University of California, Los Angeles, PhD

Ian Hudson

Assistant Teaching Professor, College of Professional Studies; Nova Southeastern University, PhD

Anne Randall Hughes

Assistant Professor, Marine and Environmental Sciences; University of California, Davis, PhD

Katlyn Hughes

Assistant Cooperative Education Coordinator, Computer and Information Science; Northeastern University, Certificate of Advanced Study

Francisco Hung

Associate Professor, Chemical Engineering; North Carolina State University, PhD

Matthew O. Hunt

Professor, Sociology and Anthropology; Indiana University, PhD

Mark Huselid

Distinguished Professor of Workforce Analytics, International Business and Strategy; State University of New York, Buffalo, PhD

J. Benjamin Hutchinson

Assistant Professor, Psychology; Stanford University, PhD

I**Roxana Iacob**

Research Assistant Professor, Barnett Institute; Konstanz University (Germany), PhD

Anthony Iarrobino

Professor, Mathematics; Massachusetts Institute of Technology, PhD

Patricia M. L. Illingworth

Professor, Philosophy and Religion; University of California, San Diego, PhD; Boston University, JD

Vinay K. Ingle

Associate Professor, Electrical and Computer Engineering; Rensselaer Polytechnic Institute, PhD

Rei Okamoto Inouye

Associate Academic Specialist, World Languages Center; Temple University, PhD

Stephen S. Intille

Associate Professor, Computer and Information Science and Health Sciences; Massachusetts Institute of Technology, PhD

Efstratis Ioannidis

Assistant Professor, Electrical and Computer Engineering; University of Toronto (Canada), PhD

Roderick L. Ireland

Distinguished Professor, Criminology and Criminal Justice; Harvard University, LLM; Northeastern University, PhD

Derek Isaacowitz

Professor, Psychology; University of Pennsylvania, PhD

Jacqueline A. Isaacs

Professor, Mechanical and Industrial Engineering; Massachusetts Institute of Technology, PhD

Michelle L. Israel

Associate Cooperative Education Coordinator, College of Science; Northeastern University, MS

Nathan Israeloff

Associate Professor, Physics; University of Illinois, Urbana-Champaign, PhD

Alexander Ivanov

Research Associate Professor, Barnett Institute; Russian Academy of Science, Institute of Bioorganic Chemistry (Moscow), PhD

Maura Daly Iversen

Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Harvard University, SD; Massachusetts General Hospital Institute of Health Professions, DPT

Julia Ivy

Associate Teaching Professor, International Business and Strategy; Lancaster University (United Kingdom), PhD

J**Denise Jackson**

Associate Professor, Psychology; University of Pittsburgh, PhD

Ellen Jackson

Assistant Teaching Professor, English; Stanford University, MFA

Jason Jackson

Future Faculty Fellow, Political Science; Massachusetts Institute of Technology, PhD

Sarah Jackson

Assistant Professor, Communication Studies; University of Minnesota, PhD

William J. Jackson

Senior Cooperative Education Coordinator, College of Arts, Media and Design; University of Massachusetts, Boston, MEd

Michelle Jacobs

Assistant Clinical Professor, Pharmacy and Health Systems Sciences; University of California, San Francisco, PharmD

Joshua R. Jacobson

Professor, Music; University of Cincinnati, DMA

Beverly Jaeger

Teaching Professor, Mechanical and Industrial Engineering; Northeastern University, PhD

Michael Jaeggli

Assistant Teaching Professor, Bioengineering; Clemson University, PhD

Nader Jalili

Professor, Mechanical and Industrial Engineering; University of Connecticut, PhD

Bogume Jang

Lecturer, Mathematics; Purdue University, PhD

Leon C. Janikian

Associate Professor, Music; University of Massachusetts, Amherst, MM

Torbjorn Jarbe

Research Professor, Pharmaceutical Sciences; University of Uppsala (Sweden), PhD

Solomon M. Jekel

Associate Professor, Mathematics; Dartmouth College, PhD

Qingying Jia

Research Assistant Professor, Chemistry and Chemical Biology; Illinois Institute of Technology, PhD

Benedict S. Jimenez

Associate Professor, Political Science; University of Illinois, Chicago, PhD

Holly Jimison

Professor of the Practice, Nursing and Computer and Information Science; Stanford University, PhD

Xiaoning Jin

Assistant Professor, Mechanical and Industrial Engineering; University of Michigan, PhD

Dinesh John

Assistant Professor, Health Sciences; University of Tennessee, PhD

Brooke Johnson

Assistant Cooperative Education Coordinator, D'Amore-McKim School of Business; Boston College, MEd

Vanessa D. Johnson

Associate Professor, Applied Psychology; Western Michigan University, EdD

Kimberly L. Jones

Associate Teaching Professor, International Affairs; Northeastern University, PhD

Rachel Jones

Associate Professor, Nursing; New York University, PhD

T. Anthony Jones

Associate Professor, Sociology and Anthropology; Princeton University, PhD

Dierdre Jordan

Associate Cooperative Education Coordinator, Bouvé College of Health Sciences; Northeastern University, MS

Yung Joon Jung

Associate Professor, Mechanical and Industrial Engineering; Rensselaer Polytechnic Institute, PhD

Jeffrey S. Juris

Associate Professor, Sociology and Anthropology; University of California, Berkeley, PhD

K**David R. Kaeli**

Professor, Electrical and Computer Engineering; Rutgers University, PhD

Sallyann Kakas

Assistant Cooperative Education Coordinator, Finance; Northeastern University, BS

Jayant Kale

Professor and Philip R. McDonald Chair, Finance; University of Texas, Austin, PhD

Sagar V. Kamarthi

Associate Professor, Mechanical and Industrial Engineering; Pennsylvania State University, PhD

John Kane

Lecturer, Art + Design; Yale University, BA

Mary M. Kane

Senior Cooperative Education Coordinator, D'Amore-McKim School of Business; University of Massachusetts, Boston, MEd

Michael Kane

Assistant Professor, Civil and Environmental Engineering; University of Michigan, PhD

Carla Kaplan

Davis Distinguished Professor of American Literature, English and Women's, Gender, and Sexuality Studies; Northwestern University, PhD

Swastik Kar

Associate Professor, Physics; Indian Institute of Physics (India), PhD

Alireza Karimi

Assistant Professor, Mechanical and Industrial Engineering; Virginia Polytechnic Institute and State University, PhD

Alain S. Karma

College of Arts and Sciences Distinguished Professor, Physics; University of California, Santa Barbara, PhD

Ralph Katz

Professor, Entrepreneurship and Innovation; University of Pennsylvania, PhD

William D. Kay

Associate Professor, Political Science; Indiana University, PhD

Bret Keeling

Associate Teaching Professor, English; University of Washington, PhD

Maureen Kelleher

Associate Professor, Sociology and Anthropology; University of Missouri, Columbia, PhD

Karen P. Kelley

Senior Cooperative Education Coordinator, College of Engineering; Northeastern University, MEd

Ryann Kelley

Assistant Cooperative Education Coordinator, Finance; Northeastern University, MEd

Thomas Kelley

Lecturer, Physics; University of Minnesota, PhD

Kathleen Kelly

Professor, English; University of North Carolina, Chapel Hill, PhD

M. Whitney Kelting

Associate Professor, Philosophy and Religion; University of Wisconsin, Madison, PhD

Daniel D. Kennedy

Associate Professor, Journalism; Boston University, MLA

Aileen Kent Yates

Assistant Cooperative Education Coordinator, Computer and Information Science; University of Massachusetts, Amherst, BA

Richard M. Kesner

Lecturer, Supply Chain and Information Management; Stanford University, PhD

Heidi Kevoe Feldman

Associate Professor, Communication Studies; Rutgers University, PhD

Ban-An Khaw

Professor, Pharmaceutical Sciences; Boston College, PhD

Konstantin Khrapko

Professor, Biology and Pharmaceutical Sciences; Engelhardt Institute of Molecular Biology, Moscow (Russia), PhD

Ilham Khuri-Makdisi

Associate Professor, History; Harvard University, PhD

Sheri Kiami

Assistant Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Simmons College, DPT

Daniel Kim

Assistant Professor, Health Sciences; University of Toronto (Canada), MD; Harvard University, PhD

Jonghan Kim

Assistant Professor, Pharmaceutical Sciences; Ohio State University, PhD

Miso Kim

Assistant Professor, Art + Design; Carnegie Mellon University, PhD

Nancy S. Kim

Associate Professor, Psychology; Yale University, PhD

Tiffany Kim

Assistant Clinical Professor, Nursing; University of Pennsylvania, PhD

Yong-Bin Kim

Associate Professor, Electrical and Computer Engineering; Colorado State University, PhD

John Kimani

Assistant Teaching Professor, Electrical and Computer Engineering; University of Wisconsin, Milwaukee, PhD

David Kimbro

Assistant Professor, Marine and Environmental Sciences; University of California, Davis, PhD

Nancy Kindelan

Professor, Theatre; University of Wisconsin, Madison, PhD

Christopher K. King

Professor, Mathematics; Harvard University, PhD

Donald R. King

Associate Professor, Mathematics; Massachusetts Institute of Technology, PhD

Engin Kirda

Professor, Computer and Information Science and Electrical and Computer Engineering; Technical University of Vienna (Austria), PhD

Rein U. Kirss

Associate Professor, Chemistry and Chemical Biology; University of Wisconsin, Madison, PhD

William Kirtz

Associate Professor, Journalism; Columbia University, MS

Jennifer L. Kirwin

Associate Clinical Professor, Pharmacy and Health Systems Sciences; Northeastern University, PharmD

Alan M. Klein

Professor, Sociology and Anthropology; State University of New York, Buffalo, PhD

Sarah Klionsky

Assistant Cooperative Education Coordinator, College of Science;
University of Wisconsin, Madison, MA

Kristian Kloeckl

Associate Professor, Art + Design; University of Venice (Italy), PhD

Thomas H. Koenig

Professor, Sociology and Anthropology; University of California, Santa Barbara, PhD

Mieczyslaw M. Kokar

Professor, Electrical and Computer Engineering; University of Wroclaw (Poland), PhD

Ying-Yee Kong

Associate Professor, Communication Sciences and Disorders; University of California, PhD

Tania Konry

Assistant Professor, Pharmaceutical Sciences; Ben Gurion University (Israel), PhD

Abigail N. Koppes

Assistant Professor, Chemical Engineering; Rensselaer Polytechnic Institute, PhD

Ryan Koppes

Assistant Professor, Chemical Engineering; Rensselaer Polytechnic Institute, PhD

Sarah Kostanski

Assistant Cooperative Education Coordinator, College of Engineering;
Framingham State University, MS

Ilka Kostka

Assistant Teaching Professor, CPS International Programs; New York University, PhD

Christopher Kottke

Postdoctoral Teaching Associate, Mathematics; Massachusetts Institute of Technology, PhD

Harilaos Koutsopoulos

Professor, Civil and Environmental Engineering; Massachusetts Institute of Technology, PhD

Linda Kowalcky

Professor of the Practice, School of Public Policy and Urban Affairs;
Johns Hopkins University, PhD

Gregory J. Kowalski

Associate Professor, Mechanical and Industrial Engineering; University of Wisconsin, Madison, PhD

Sergey Kravchenko

Professor, Physics; Institute of Solid State Physics (Russia), PhD

Dmitri Krioukov

Associate Professor, Physics; Old Dominion University, PhD

Ganesh Krishnamoorthy

Professor, Accounting; University of Southern California, PhD

Karthik Krishnan

Assistant Professor and Thomas Moore Faculty Fellow, Finance; Boston College, PhD

Louis J. Kruger

Associate Professor, Applied Psychology; Rutgers University, PsyD

Steven R. Kursh

Associate Academic Specialist, Finance; University of Pennsylvania, PhD

John E. Kwoka Jr.

Neal F. Finnegan Chair, Economics; University of Pennsylvania, PhD

L**Michelle Laboy**

Assistant Professor, Architecture; University of Michigan, MArch

Jamie Ladge

Associate Professor, Management and Organizational Development;
Boston College, PhD

Jay Laird

Assistant Teaching Professor, College of Professional Studies; Lesley University, MFA

Venkatraman Lakshmibai

Professor, Mathematics; Tata University (India), PhD

Charlotte Lam

Assistant Cooperative Education Coordinator, College of Science;
California State University, Sacramento, MA

Joan Lamachia

Associate Cooperative Education Coordinator, College of Social Sciences and Humanities; Boston College, MEd

Arthur LaMan

Assistant Academic Specialist, College of Professional Studies;
Northeastern University, MS

Anna Lamin

Associate Professor and Matthew Eagan Faculty Fellow, International Business and Strategy; University of Minnesota, PhD

Jason Lancaster

Associate Clinical Professor, Pharmacy and Health Systems Sciences;
Massachusetts College of Pharmacy, PharmD

William Lancaster

Senior Lecturer, Communication Studies; Michigan State University, MA

Lucas J. Landherr

Associate Teaching Professor, Chemical Engineering; Cornell University, PhD

Henry W. Lane

Professor, International Business and Strategy; Harvard University, DBA

David Lang

Lecturer, Mathematics; Boston College, PhD; Northeastern University, PhD

Amy Lantinga

Associate Teaching Professor, College of Professional Studies; University of Tennessee, Knoxville, EdD

Paul LaPlante

Assistant Academic Specialist, World Languages Center; Brown University, MA

Philip Larese-Casanova

Associate Professor, Civil and Environmental Engineering; University of Iowa, PhD

Sonya L. Larrieux

Clinical Instructor, Physical Therapy, Movement, and Rehabilitation Sciences; Columbia University, MA

Barbara Larson

Assistant Academic Specialist, Management and Organizational Development; Harvard Business School, DBA

Elizabeth Larson

Assistant Cooperative Education Coordinator, D'Amore-McKim School of Business; Northeastern University, MBA

Kimberly Larson

Associate Teaching Professor, College of Professional Studies; Villanova University School of Law, JD; Drexel University, PhD

Felicia G. Lassk

Associate Professor, Marketing; University of South Florida, PhD

Amanda Reeser Lawrence

Associate Professor, Architecture; Harvard University, PhD

David M. Lazer

Professor, Political Science and Computer and Information Science; University of Michigan, Ann Arbor, PhD

Christina Lee

Assistant Professor, Applied Psychology; New York University, PhD

Cynthia Lee

Professor, Management and Organizational Development; University of Maryland, PhD

Doreen Lee

Associate Professor, Sociology and Anthropology; Cornell University, PhD

Jung H. Lee

Associate Professor, Philosophy and Religion; Brown University, PhD

Lee-Peng Lee

Lecturer, Mathematics; Massachusetts Institute of Technology, PhD

Yang W. Lee

Associate Professor, Supply Chain and Information Management; Massachusetts Institute of Technology, PhD

Carolyn W. T. Lee-Parsons

Associate Professor, Chemical Engineering and Chemistry and Chemical Biology; Cornell University, PhD

Miriam E. Leeser

Professor, Electrical and Computer Engineering; Cambridge University (United Kingdom), PhD

Laurel Leff

Associate Professor and Stotsky Professor of Jewish and Cultural Studies, Journalism; Yale University, MA

Lori H. Lefkowitz

Ruderman Professor, Jewish Studies and English; Brown University, PhD

Patrick Legros

Distinguished Professor, Economics; California Institute of Technology, PhD

Bradley M. Lehman

Professor, Electrical and Computer Engineering; Georgia Institute of Technology, PhD

Tricia Lenihan

Assistant Cooperative Education Coordinator, College of Engineering; Boston University, MEd

Robert Lentz

Assistant Academic Specialist, Entrepreneurship and Innovation; Babson College, MBA

Neal Lerner

Associate Professor, English; Boston University, EdD

Marina Leslie

Associate Professor, English; Yale University, PhD

Hanoch Lev-Ari

Professor, Electrical and Computer Engineering; Stanford University, PhD

Danielle Levac

Assistant Professor, Physical Therapy, Movement, and Rehabilitation Sciences; McMaster University (Canada), PhD

Tatyana Levchenko

Research Assistant Professor, Pharmaceutical Sciences; Academy of Medical Sciences Moscow (Russia), PhD

Yiannis A. Levendis

College of Engineering Distinguished Professor, Mechanical and Industrial Engineering; California Institute of Technology, PhD

Jack Levin

Irving S. and Betty Brudnick Distinguished Professor, Sociology and Anthropology; Boston University, PhD

Elinor Levine

Assistant Cooperative Education Coordinator, D'Amore-McKim School of Business; University of Massachusetts, Amherst, MEd

Kim Lewis

University Distinguished Professor, Biology; Moscow University (Russia), PhD

Laura H. Lewis

Cabot Professor, Chemical Engineering and Mechanical and Industrial Engineering; University of Texas, Austin, PhD

David J. Lewkowicz

Professor, Communication Sciences and Disorders; University of New York, PhD

Chieh Li

Associate Professor, Applied Psychology; University of Massachusetts, Amherst, EdD

Rui Li

Assistant Clinical Professor, Health Sciences; Baylor University, PhD

Dirk Libaers

Associate Professor, Entrepreneurship and Innovation; Georgia Institute of Technology, PhD

Robert Lieb

Professor, Supply Chain and Information Management; University of Maryland, DBA

Karl J. Lieberherr

Professor, Computer and Information Science; Eidgenössische Technische Hochschule Zürich (Switzerland), PhD

Karin N. Lifter

Professor, Applied Psychology; Columbia University, PhD

Xue Lin

Assistant Professor, Electrical and Computer Engineering; University of Southern California, PhD

Yingzi Lin

Associate Professor, Mechanical and Industrial Engineering; University of Saskatchewan (Canada), PhD

Alisa K. Lincoln

Professor, Health Sciences and Sociology and Anthropology; Columbia University, PhD

Margo Lindauer

Associate Teaching Professor, Health Sciences; Georgetown University Law Center, MS

John Lindhe

Lecturer, Mathematics; Northeastern University, MA

Charles Linshaw

Visiting Lecturer, Theatre; Columbia University, MFA

Gabor Lippner

Assistant Professor, Mathematics; Eotvos University (Hungary), PhD

James Lipsky

Associate Academic Specialist, World Languages Center; Boston University, MA

Heather Littlefield

Associate Teaching Professor, Linguistics; Boston University, PhD

Kelvin Liu

Associate Professor, Accounting; University of South Carolina, PhD

Yongmin Liu

Assistant Professor, Mechanical and Industrial Engineering and Electrical and Computer Engineering; University of California, Berkeley, PhD

Grigorios Livanis

Assistant Professor, International Business and Strategy; University of Florida, PhD

Ioannis Livanis

Associate Teaching Professor, International Affairs and Political Science; University of Florida, PhD

Carol Livermore

Associate Professor, Mechanical and Industrial Engineering; Harvard University, PhD

Mary Loeffelholz

Professor, English; Yale University, PhD

Martha Loftus

Assistant Teaching Professor, College of Professional Studies; Harvard University, EdD

Diomedes E. Logothetis

Professor, Pharmaceutical Sciences; Harvard University, PhD

Jane Lohmann

Associate Teaching Professor, College of Professional Studies; Harvard University, EdD

Mark Lomanno

Visiting Assistant Professor, Music; University of Texas, Austin, PhD

Fabrizio Lombardi

International Test Conference Professor, Electrical and Computer Engineering; University of London (United Kingdom), PhD

Marissa Lombardi

Assistant Teaching Professor, College of Professional Studies; Northeastern University, EdD

Guido Lopez

Associate Teaching Professor, College of Professional Studies; Northeastern University, PhD

Connie Lorette

Assistant Clinical Professor, Nursing; Boston College, PhD

Ralph H. Loring

Associate Professor, Pharmaceutical Sciences; Cornell University, PhD

Ivan Loseu

Associate Professor, Mathematics; Moscow State University (Russia), PhD

Kathleen Lotterhos

Assistant Professor, Marine and Environmental Sciences; Florida State University, PhD

Salim A. Lotuff III

Teaching Professor, Communication Studies; Northeastern University, MA

Deirdre Loughridge

Assistant Professor, Music; University of Pennsylvania, PhD

Tania Muino Loureiro

Assistant Academic Specialist, World Languages Center; University of Barcelona (Spain), MA

Jennifer O. Love

Associate Academic Specialist, Engineering; University of Iowa, MS

Timothy Love

Associate Professor, Architecture; Harvard University, MArch

William Lovely

Assistant Academic Specialist, International Business and Strategy; Northeastern University, DLP

Amy Lu

Assistant Professor, Communication Studies and Health Sciences; University of North Carolina, Chapel Hill, PhD

Katherine A. Luongo

Associate Professor, History; University of Michigan, Ann Arbor, PhD

Steven Lustig

Associate Professor, Chemical Engineering; Purdue University, PhD

David E. Luzzi

Professor, Mechanical and Industrial Engineering; Northwestern University, PhD

Spencer Lynn

Research Assistant Professor, Psychology; University of Arizona, PhD

M**Linlin Ma**

Assistant Professor, Finance; Georgia State University, PhD

Patricia A. Mabrouk

Professor, Chemistry and Chemical Biology; Massachusetts Institute of Technology, PhD

Andrew Mackie

Assistant Clinical Professor, Physician Assistant Program; University of Nebraska, MS

Emanuele Macri

Associate Professor, Mathematics; SISSA (Italy), PhD

Jeanne Madden

Associate Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Harvard University, PhD

Kristin Madison

Professor, Health Sciences and Law; Stanford University, PhD

Tracy Magee

Assistant Clinical Professor, Nursing; Boston College, PhD

Bala Maheswaran

Teaching Professor, Engineering; Northeastern University, PhD

Elizabeth Mahler

Assistant Teaching Professor, College of Professional Studies; George Washington University, EdD

Luigia Gina Maiellaro

Senior Academic Specialist, World Languages Center; Russian State University for the Humanities (Russia), PhD

Lee Makowski

Professor, Bioengineering and Chemistry and Chemical Biology; Massachusetts Institute of Technology, PhD

Purnima Makris

Associate Professor, Electrical and Computer Engineering; Massachusetts Institute of Technology, PhD

Alexandros Makriyannis

Behrakis Trustee Chair in Pharmaceutical Biotechnology and University Distinguished Professor, Pharmaceutical Sciences and Chemistry and Chemical Biology; University of Kansas, PhD

Michael Malamas

Research Associate Professor, Pharmaceutical Sciences and Chemistry and Chemical Biology; University of Pennsylvania, PhD

Shiti Malhotra

Lecturer, Linguistics; University of Maryland, PhD

Veronika Maliborska

Assistant Teaching Professor, College of Professional Studies; Purdue University, PhD

Mikhail Malioutov

Professor, Mathematics; Moscow State University (Russia), PhD

Andrew Mall

Visiting Assistant Teaching Professor, Music; University of Chicago, PhD

Craig E. Maloney

Associate Professor, Mechanical and Industrial Engineering; University of California, Santa Barbara, PhD

Roman Manetsch

Associate Professor, Chemistry and Chemical Biology and Pharmaceutical Sciences; University of Basel (Switzerland), PhD

Justin Manjourides

Assistant Professor, Health Sciences; Harvard University, PhD

Emily Mann

Teaching Professor, Human Services; University of Wisconsin, Madison, PhD

James M. Manning

Professor, Biology; Tufts University, PhD

Peter K. Manning

Elmer V. H. and Eileen M. Brooks Trustee Professor, Criminology and Criminal Justice; Duke University, PhD

Moira C. Mannix

Associate Cooperative Education Coordinator, Bouvé College of Health Sciences; Columbia University, MA

Peter Manolios

Professor, Computer and Information Science; University of Texas, Austin, PhD

Valentina Marano

Assistant Professor, International Business and Strategy; University of South Carolina, PhD

Edwin Marengo

Associate Professor, Electrical and Computer Engineering; Northeastern University, PhD

Donald G. Margotta

Associate Professor, Finance; University of North Carolina, Chapel Hill, PhD

Alina Marian

Associate Professor, Mathematics; Harvard University, PhD

Tucker Marion

Associate Professor and Altschuler Research Fellow, Entrepreneurship and Innovation; Pennsylvania State University, PhD

Robert S. Markiewicz

Professor, Physics; University of California, Berkeley, PhD

Alycia Markowski

Associate Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Northeastern University, DPT

Mindy Marks

Associate Professor, Economics; Washington University, PhD

Stacy Marsella

Professor, Computer and Information Science and Psychology; Rutgers University, PhD

Ineke Haen Marshall

Professor, Sociology and Anthropology and Criminology and Criminal Justice; Bowling Green State University, PhD

Dayna L. Martinez

Assistant Teaching Professor, Mechanical and Industrial Engineering; University of South Florida, Tampa, PhD

Ramiro Martinez Jr.

Professor, Criminology and Criminal Justice and Sociology and Anthropology; Ohio State University, PhD

José Angel Martinez-Lorenzo

Assistant Professor, Mechanical and Industrial Engineering and Electrical and Computer Engineering; Universidad de Vigo (Spain), PhD

Ivan Martino

Visiting Postdoctoral Teaching Associate, Mathematics; Stockholm University (Sweden), PhD

Mauro Martino

Assistant Professor, Art + Design and Public Policy and Urban Affairs; Polytechnic University of Milan (Italy), PhD

Alexander Martsinkovsky

Associate Professor, Mathematics; Brandeis University, PhD

Emanuel J. Mason

Professor, Applied Psychology; Temple University, EdD

David Massey

Professor, Mathematics; Duke University, PhD

Jude Mathews

Assistant Teaching Professor, Chemistry and Chemical Biology; Clemson University, PhD

Kristen Mathieu Gonzalez

Clinical Instructor, Nursing; University of Phoenix, MS

Thomas M. Matta

Assistant Clinical Professor, Pharmacy and Health Systems Sciences; Xavier University of Louisiana, PharmD

Samuel J. Matthews

Associate Professor, Pharmacy and Health Systems Sciences; University of Minnesota, PharmD

Gail Matthews-DeNatale

Assistant Teaching Professor, College of Professional Studies; Indiana University, Bloomington, PhD

Carla Mattos

Professor, Chemistry and Chemical Biology; Massachusetts Institute of Technology, PhD

Lucy Maulsby

Associate Professor, Architecture; Columbia University, PhD

Ernest Mauristhene

Associate Cooperative Education Coordinator, D'Amore-McKim School of Business; Hardin-Simmons University, MBA

William G. Mayer

Professor, Political Science; Harvard University, PhD

Mary Mayville

Assistant Clinical Professor, Nursing; Northeastern University, DNP

Dori P. Mazor

Assistant Cooperative Education Coordinator, College of Arts, Media and Design; Brandeis University, MBA

Laurie McCadden

Clinical Instructor, Nursing; University of Massachusetts, Lowell, MSN

Daniel J. McCarthy

McKim and D'Amore Distinguished Professor of Global Management and Innovation, Entrepreneurship and Innovation; Harvard University, DBA

Paulette McCarty

Assistant Academic Specialist, Management and Organizational Development; University of Tennessee, PhD

Jane McCool

Assistant Clinical Professor, Nursing; University of Rhode Island, PhD

Eileen L. McDonagh

Professor, Political Science; Harvard University, PhD

Ann McDonald

Associate Professor, Art + Design; Yale University, MFA

Matthew McDonald

Associate Professor, Music; Yale University, PhD

Melissa McElligott

Assistant Teaching Professor, Biology; Northeastern University, PhD

Seamus McGovern

Lecturer, Supply Chain and Information Management; Northeastern University, PhD

Nicol E. McGruer

Professor, Electrical and Computer Engineering; Michigan State University, PhD

Jean McGuire

Professor of the Practice, Health Sciences; Brandeis University, PhD

Brendan McLellan

Postdoctoral Teaching Associate, Mathematics; University of Toronto (Canada), PhD

Cristine McMartin-Miller

Associate Teaching Professor, CPS International Programs; Purdue University, PhD

Joseph McNabb

Professor of the Practice, College of Professional Studies; Northeastern University, PhD

Robert C. McOwen

Professor, Mathematics; University of California, Berkeley, PhD

Frances Nelson McSherry

Teaching Professor, Theatre; New York University, MFA

Thomas L. Meade

Postdoctoral Teaching Associate, Communication Studies; University of Alabama, PhD

Isabel Meirelles

Associate Professor, Art + Design; Massachusetts College of Art, MFA

Emanuel S. Melachrinoudis

Associate Professor, Mechanical and Industrial Engineering; University of Massachusetts, Amherst, PhD

Waleed Meleis

Associate Professor, Electrical and Computer Engineering; University of Michigan, PhD

Susan L. Mello

Assistant Professor, Communication Studies; University of Pennsylvania, PhD

Tina Mello

Assistant Cooperative Education Coordinator, College of Science; Boston College, MA

Richard H. Melloni Jr.

Professor, Psychology; University of Massachusetts Medical Center, PhD

Tommaso Melodia

Associate Professor, Electrical and Computer Engineering; Georgia Institute of Technology, PhD

Latika Menon

Associate Professor, Physics; Tata Institute of Fundamental Research, Bombay (India), PhD

David Merry

Associate Cooperative Education Coordinator, Cooperative Education; University of Iowa, MA

Hameed Metghalchi

Professor, Mechanical and Industrial Engineering; Massachusetts Institute of Technology, ScD

Marc H. Meyer

Robert J. Shillman Professor of Entrepreneurship and Matthews Distinguished University Professor, Entrepreneurship and Innovation; Massachusetts Institute of Technology, PhD

Michael C. Meyer

Lecturer, Philosophy and Religion; Boston University, PhD

Ningfang Mi

Associate Professor, Electrical and Computer Engineering; University of Texas, Dallas, MS

Dean Michael

Assistant Teaching Professor, College of Professional Studies; Columbia University, PhD

Srboljub Mijailovich

Research Professor, Chemistry and Chemical Biology; Massachusetts Institute of Technology, PhD

Loiza Miles

Assistant Academic Specialist, World Languages Center; Sorbonne University (France), MA

William F. S. Miles

Professor, Political Science; Tufts University, PhD

Danielle M. Miller

Assistant Clinical Professor, Pharmacy and Health Systems Sciences; Northeastern University, PharmD

Dennis H. Miller

Professor, Music; Columbia University, DMA

Edward Miller

Assistant Teaching Professor, CPS International Programs; Boston College, PhD

Gregory Miller

Associate Professor, Pharmaceutical Sciences; Mount Sinai School of Medicine, PhD

Joanne L. Miller

Matthews Distinguished University Professor, Psychology; University of Minnesota, PhD

Matthew Miller

Professor, Health Sciences; Yale University, MD; Harvard University, ScD

Sara Minard

Assistant Academic Specialist, Entrepreneurship and Innovation; Institute d'Etudes Politiques (France), PhD

Ennio Mingolla

Professor, Communication Sciences and Disorders; University of Connecticut, PhD

Marilyn L. Minus

Associate Professor, Mechanical and Industrial Engineering; Georgia Institute of Technology, PhD

Alan Mislove

Associate Professor, Computer and Information Science; Rice University, PhD

Cheryl Mitteness

Academic Specialist, Entrepreneurship and Innovation; University of Louisville, PhD

Nancy Mizzoni

Clinical Instructor, Nursing; Northeastern University, MS

Anahit Mkrtychyan

Assistant Professor, Finance; Pennsylvania State University, PhD

Vallentine Moghadam

Professor, Sociology and Anthropology and International Affairs; American University, PhD

Shan Mohammed

Associate Professor, Health Sciences; Case Western Reserve University, MD

Changiz Mohiyeddini

Associate Professor, Applied Psychology; University of Trier (Germany), PhD

Beth Molnar

Associate Professor, Health Sciences; Harvard University, ScD

James Monaghan

Assistant Professor, Biology; University of Kentucky, PhD

Katelyn Monaghan

Assistant Clinical Professor, Communication Sciences and Disorders; A.T. Still University School of Health Sciences - Mesa, AuD

Susan F. Montgomery

Senior Academic Specialist, Entrepreneurship and Innovation and Law; Northeastern University, JD

Swapnil Moon

Assistant Teaching Professor, Mechanical and Industrial Engineering; New Jersey Institute of Technology, PhD

Robert M. Mooradian

Professor and Harding Research Professor, Finance; University of Pennsylvania, PhD

Rebekah Moore

Assistant Professor, Accounting; University of Tennessee, PhD

Enrique Moreno

Senior Lecturer, Physics; Universidad Nacional de La Plata (Argentina), PhD

Jessica Moreno

Assistant Clinical Professor, Pharmacy and Health Systems Sciences; University of Michigan, PharmD

Kimberly Moreno

Associate Professor and Harold A. Mock Professor, Accounting; University of Massachusetts, Amherst, PhD

Joanne Morreale

Associate Professor, Media and Screen Studies; Temple University, PhD

Kristen Morse

Assistant Cooperative Education Coordinator, Bouvé College of Health Sciences; Ithaca College, DPT

Hossein Mosallaei

Associate Professor, Electrical and Computer Engineering; University of California, Los Angeles, PhD

Edward V. Moss

Assistant Teaching Professor, English; Emerson College, MFA

Jeanine K Mount

Professor of the Practice, Pharmacy and Health Systems Sciences and Health Sciences; Purdue University, PhD

Lorraine Ann Mountain

Senior Cooperative Education Coordinator, College of Engineering; Tufts University, MS

Amy Mueller

Assistant Professor, Civil and Environmental Engineering and Marine and Environmental Sciences; Massachusetts Institute of Technology, PhD

Sinan Muftu

Professor, Mechanical and Industrial Engineering; University of Rochester, PhD

Sanjeev Mukerjee

Professor, Chemistry and Chemical Biology; Texas AM University, PhD

Jay Mulki

Associate Professor, Marketing; University of South Florida, PhD

Patrick R. Mullen

Associate Professor, English; University of Pittsburgh, PhD

Kellianne Murphy

Senior Cooperative Education Coordinator, College of Arts, Media and Design; Northeastern University, MA

Lauren A. Murphy

Assistant Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Portland State University, PhD

Robert Murray

Assistant Academic Specialist, Supply Chain and Information Management; Harvard Business School, MBA

Shashi K. Murthy

Associate Professor, Chemical Engineering; Massachusetts Institute of Technology, PhD

Cecelia Musselman

Associate Teaching Professor, English; Columbia University, PhD

Shakir Mustafa

Senior Academic Specialist, World Languages Center; Boston University, PhD

Andrew Myers

Assistant Professor, Civil and Environmental Engineering; Stanford University, PhD

David Myers

Associate Teaching Professor, Finance; University of Washington, PhD

Laura Mylott

Clinical Professor, Nursing; Boston College, PhD

N

Franklin Naarendorp

Associate Professor, Psychology; City University of New York, PhD

Nada Naji

Lecturer, Computer and Information Science; University of Neuchatel (Switzerland), PhD

Thomas K. Nakayama

Professor, Communication Studies; University of Iowa, PhD

Laurie A. Nardone

Associate Teaching Professor, English; Emory University, PhD

Uichiro Narusawa

Associate Professor, Mechanical and Industrial Engineering; University of Michigan, PhD

Pran Nath

Matthews Distinguished University Professor, Physics; Stanford University, PhD

Hamid Nayeb-Hashemi

Professor, Mechanical and Industrial Engineering; Massachusetts Institute of Technology, PhD

Brent Nelson

Associate Professor, Physics; University of California, Berkeley, PhD

Carl W. Nelson

Associate Professor, International Business and Strategy; University of Manchester (United Kingdom), PhD

Laura Nelson

Assistant Professor, Sociology and Anthropology; University of California, Berkeley, PhD

Van Nguyen

Postdoctoral Teaching Associate, Mathematics; Texas AM University, PhD

Sandy Nickel

Assistant Teaching Professor, College of Professional Studies; University of Iowa, PhD

Mark J. Niedre

Associate Professor, Electrical and Computer Engineering and Bioengineering; University of Toronto (Canada), PhD

Spyridon Nikas

Research Associate Professor, Pharmaceutical Sciences; Aristotle University (Greece), PhD

Matthew Nippins

Assistant Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Massachusetts General Hospital Institute of Health Professions, DPT

Matthew C Nisbet

Associate Professor, Communication Studies; Cornell University, PhD

Cristina Nita-Rotaru

Professor, Computer and Information Science; Johns Hopkins University, PhD

Daniel R. Noemi Voionmaa

Associate Professor, History; Yale University, PhD

Alison Nogueira

Associate Cooperative Education Coordinator, College of Engineering; Suffolk University, MEd

David Nolan

Associate Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Massachusetts General Hospital Institute of Health Professions, DPT

Kimberly Nolan

Assistant Teaching Professor, College of Professional Studies; University of Vermont, EdD

Carey Noland

Associate Professor, Communication Studies; Ohio University, PhD

Ellen Noonan

Associate Teaching Professor, English; Emerson College, MFA

Matthew P. Noonan

Associate Teaching Professor, English; Massachusetts College of Art, MFA

Guevara Noubir

Professor, Computer and Information Science; Swiss Federal Institute of Technology, Lausanne (Switzerland), PhD

Welville B. Nowak

Senior Research Scientist, Mechanical and Industrial Engineering; Massachusetts Institute of Technology, PhD

Gilbert Nyaga

Associate Professor and Joe Dichiacchio Faculty Fellow, Supply Chain and Information Management; Michigan State University, PhD

O**Jessica Oakes**

Assistant Professor, Bioengineering; University of California, San Diego, PhD

Antonio Ocampo-Guzman

Associate Professor, Theatre; York University (Canada), MFA

Lydia Odgen

Associate Teaching Professor, Human Services; Columbia University, PhD

Curtis Odom

Visiting Lecturer, Management and Organizational Development; Pepperdine University, EdD

Dietmar Offenhuber

Assistant Professor, Art + Design; Massachusetts Institute of Technology, PhD

Marvin Onabajo

Assistant Professor, Electrical and Computer Engineering; Texas AM University, PhD

Kay Onan

Associate Professor, Chemistry and Chemical Biology; Duke University, PhD

Mary Jo Ondrechen

Professor, Chemistry and Chemical Biology; Northwestern University, PhD

Annalisa Onnis-Hayden

Associate Teaching Professor, Civil and Environmental Engineering; University of Cagliari (Italy), PhD

Stephen Onu

Assistant Academic Specialist, College of Professional Studies; University of Phoenix, DBA

Toyoko Orimoto

Assistant Professor, Physics; University of California, Berkeley, PhD

Elika Ortega Guzman

Assistant Professor, Languages, Literatures, and Cultures; University of Western Ontario (Canada), PhD

Oleksiy Osiyevskyy

Assistant Professor, Entrepreneurship and Innovation; University of Calgary (Canada), PhD

Jacek Ossowski

Lecturer, Computer and Information Science; New York University, PhD

Sarah Ostadabbas

Assistant Professor, Electrical and Computer Engineering; University of Texas, Dallas, PhD

Timothy Ouillette

Assistant Teaching Professor, Communication Studies; Art Institute of Boston, MFA

Oyindasola Oyelaran

Associate Teaching Professor, Chemistry and Chemical Biology; Harvard University, PhD

Yusuf Ozbek

Assistant Teaching Professor, Graduate School of Engineering; Northeastern University, PhD

Dan O'Brien

Assistant Professor, Public Policy and Urban Affairs and Criminology and Criminal Justice; Binghamton University, PhD

Sean O'Connell

Assistant Academic Specialist, College of Professional Studies; University of Massachusetts, Boston, MA

Catherine O'Connor

Clinical Instructor, Nursing; Boston College, MS

George A. O'Doherty

Professor, Chemistry and Chemical Biology; Ohio State University, PhD

Russ O'Haver

Senior Academic Specialist, Accounting; University of New York, PhD

Peggy L. O'Kelly

Senior Lecturer, Accounting; University of Michigan, MBA

Donald M. O'Malley

Associate Professor, Biology; Harvard University, PhD

Therese M. O'Neil-Pirozzi

Associate Professor, Communication Sciences and Disorders; Boston University, ScD

P

Taskin Padir

Associate Professor, Electrical and Computer Engineering; Purdue University, PhD

Robert Painter

Lecturer, Linguistics; State University of New York, Buffalo, PhD

Himlona Palikhe

Assistant Teaching Professor, Graduate School of Engineering; Texas Tech University, PhD

Kwamina Panford

Associate Professor, African-American Studies; Northeastern University, PhD

Coleen C. Pantalone

Associate Professor, Finance; Iowa State University, PhD

Jeremy Papadopoulos

Assistant Teaching Professor, Mechanical and Industrial Engineering; Massachusetts Institute of Technology, PhD

Harikrishnan Parameswaran

Assistant Professor, Bioengineering; Boston University, PhD

Serena Parekh McGushin

Associate Professor, Philosophy and Religion; Boston College, PhD

Andrea Parker

Assistant Professor, Computer and Information Science and Health Sciences; Georgia Institute of Technology, PhD

Christopher M. Parsons

Assistant Professor, History; University of Toronto (Canada), PhD

Nikos Passas

Professor, Criminology and Criminal Justice; University of Edinburgh (Scotland), PhD

Rupal Patel

Professor, Communication Sciences and Disorders and Computer and Information Science; University of Toronto (Canada), PhD

Dipu Patel-Junankar

Assistant Clinical Professor, Physician Assistant Program; University of Nebraska, MPAS

Mark Patterson

Professor, Marine and Environmental Sciences and Civil and Environmental Engineering; Harvard University, PhD

Misha Pavel

Professor of the Practice, Computer and Information Science and Health Sciences; New York University, PhD

Nancy Pawlyshyn

Assistant Teaching Professor, College of Professional Studies; Capella University, PhD

Celia Pearce

Associate Professor, Game Design; University of the Arts London (United Kingdom), PhD

Neal Pearlmuter

Associate Professor, Psychology; Massachusetts Institute of Technology, PhD

Melissa Pearson

Assistant Teaching Professor, English; University of South Carolina, PhD

Melissa Peiken

Associate Cooperative Education Coordinator, Computer and Information Science; Emerson College, MEd

Russell Pensyl

Professor, Art + Design; Western Michigan University, MFA

Pablo Perez Ramos

Visiting Assistant Professor, Architecture; Harvard University, MLA

Natalie Perry

Assistant Teaching Professor, College of Professional Studies; University of Virginia, PhD

Stuart S. Peterfreund

Professor, English; University of Washington, PhD

Courtney Pfluger

Assistant Teaching Professor, Engineering; Northeastern University, PhD

Susan E. Picillo

Senior Lecturer, Communication Studies; Cambridge College, MEd

Sara Picklesmier

Postdoctoral Teaching Associate, Communication Studies; University of Connecticut, PhD

Pamela Pietrucci

Postdoctoral Teaching Associate, Communication Studies; University of Washington, PhD

Ameet Pinto

Assistant Professor, Civil and Environmental Engineering; Virginia Polytechnic Institute and State University, PhD

Jacqueline M. Piret

Associate Professor, Biology; Massachusetts Institute of Technology, PhD

Jennifer Pirri

Assistant Teaching Professor, Behavioral Neuroscience; University of Massachusetts Medical School, PhD

Steven D Pizer

Associate Professor, Pharmacy and Health Systems Sciences; Boston College, PhD

Harlan D. Platt

Professor, Finance; University of Michigan, PhD

Marjorie Platt

Professor, Accounting; University of Michigan, PhD

Robert Platt Jr.

Assistant Professor, Computer and Information Science; University of Massachusetts, Amherst, PhD

Peter Plourde

Assistant Academic Specialist, College of Professional Studies; University of Massachusetts, Lowell, MS

Elizabeth J. Podlaha-Murphy

Professor, Chemical Engineering; Columbia University, PhD

Mya Poe

Assistant Professor, English; University of Massachusetts, Amherst, PhD

Hermine Poghosyan

Assistant Professor, Nursing; University of Massachusetts Boston, PhD

Uta G. Poiger

Professor, History; Brown University, PhD

Ann Polcari

Associate Clinical Professor, Nursing; Boston College, PhD

Michael Pollastri

Associate Professor, Chemistry and Chemical Biology; Brown University, PhD

Marius Popescu

Visiting Assistant Professor, Finance; Virginia Polytechnic Institute and State University, PhD

Hilary Poriss

Associate Professor, Music; University of Chicago, PhD

Richard D. Porter

Professor, Mathematics; Yale University, PhD

Veronica L. Porter

Associate Professor, Cooperative Education, College of Science; Northeastern University, MEd

John H. Portz

Professor, Political Science; University of Wisconsin, Madison, PhD

David Potter

Associate Cooperative Education Coordinator, College of Engineering; Northeastern University, MSEE

Mary-Susan Potts-Santone

Associate Teaching Professor, Biology; University of New Hampshire, PhD

Karen Pounds

Assistant Clinical Professor, Nursing; University of Rhode Island, PhD

Michael J. Power

Lecturer, Supply Chain and Information Management; Northeastern University, MBA

Susan Powers-Lee

Professor, Biology; University of California, Berkeley, PhD

Robert Prior

Associate Teaching Professor, College of Professional Studies; Nova Southeastern University, EdD

Mark Prokosch

Lecturer, Psychology; University of California, Davis, PhD

Sheila M. Puffer

Professor and University Distinguished Professor, International Business and Strategy; University of California, Berkeley, PhD

Q**Karen Quigley**

Research Associate Professor, Psychology; Ohio State University, PhD

William G. Quill

Associate Professor, Applied Psychology; University of Massachusetts, Amherst, PhD

Daniel F. Quinn

Teaching Professor, Psychology; Northeastern University, PhD

R**Samuel Rabino**

Professor, Marketing; New York University, PhD

Gordana Rabrenovic

Associate Professor, Sociology and Anthropology; State University of New York, Albany, PhD

Joseph A. Raelin

Professor and Asa S. Knowles Chair of Practice-Oriented Education, Management and Organizational Development; State University of New York, Buffalo, PhD

Rajmohan Rajaraman

Professor, Computer and Information Science; University of Texas, Austin, PhD

Ravi Ramamurti

Distinguished Chair Professor, International Business and Strategy; Harvard University, DBA

Valeria Ramdin

Clinical Instructor, Nursing; Northeastern University, PhD

Janet H. Randall

Professor, English; University of Massachusetts, Amherst, PhD

Carey M. Rappaport

College of Engineering Distinguished Professor, Electrical and Computer Engineering; Massachusetts Institute of Technology, ScD

Richard A. Rasala

Professor, Computer and Information Science; Harvard University, PhD

Andrea Raynor

Teaching Professor, Art + Design; School of Visual Arts, MFA

Joseph Reagle

Assistant Professor, Communication Studies; New York University, PhD

Debra J. Reid

Assistant Clinical Professor, Pharmacy and Health Systems Sciences; Northeastern University, PharmD

Imke C. Reimers

Assistant Professor, Economics; University of Minnesota, PhD

Karen Reiss Medwed

Assistant Teaching Professor, College of Professional Studies; New York University, PhD

Marketa Rejtarova

Assistant Clinical Professor, Nursing; Massachusetts General Hospital Institute of Health Professions, DNP

Alessandra Renzi

Assistant Professor, Art + Design; University of Toronto (Canada), PhD

John R. Reynolds

Professor, Pharmacy and Health Systems Sciences; Duquesne University, PharmD

Karl Reynolds

Associate Teaching Professor, CPS International Programs; University of Washington, PhD

Mahtab Rezvani

Assistant Academic Specialist, CPS International Programs; California State University, Los Angeles, MA

Lesley Ricci

Visiting Lecturer, Psychology; Northeastern University, PhD

Christopher Richardson

Lecturer, Biology; Boston University, PhD

Milda Richardson

Lecturer, Art + Design; Boston University, PhD

Megan Richmond

Assistant Cooperative Education Coordinator, D'Amore-McKim School of Business; Boston College, MEd

Janet S. Rico

Associate Clinical Professor, Nursing; Northeastern University, PhD

Mirek Riedewald

Associate Professor, Computer and Information Science; University of California, Santa Barbara, PhD

Christoph Riedl

Assistant Professor, Supply Chain and Information Management and Computer and Information Science; Technische Universität München (Germany), PhD

Justin Ries

Associate Professor, Marine and Environmental Sciences; Johns Hopkins University, PhD

Matteo Rinaldi

Assistant Professor, Electrical and Computer Engineering; University of Pennsylvania, PhD

Christie Rizzo

Assistant Professor, Applied Psychology; University of Southern California, Los Angeles, PhD

Christina Roberts

Assistant Cooperative Education Coordinator, D'Amore-McKim School of Business; Simmons College, MBA

Susan J. Roberts

Professor, Nursing; Boston University, DNSc

Christopher J. Robertson

Professor, International Business and Strategy; Florida State University, PhD

Craig M. Robertson

Assistant Professor, Media and Screen Studies; University of Illinois, Urbana-Champaign, PhD

William Robertson

Assistant Professor, Computer and Information Science and Electrical and Computer Engineering; University of California, Santa Barbara, PhD

Cordula Robinson

Associate Teaching Professor, College of Professional Studies; University College London (United Kingdom), PhD

Harlow L. Robinson

Matthews Distinguished University Professor, History; University of California, Berkeley, PhD

Holbrook C. Robinson

Associate Professor, Languages, Literatures, and Cultures; Harvard University, PhD

Tracy L. Robinson Wood

Professor, Applied Psychology; Harvard University, EdD

Brian Robison

Assistant Teaching Professor, Music; Cornell University, DMA

David A. Rochefort

College of Arts and Sciences Distinguished Professor, Political Science; Brown University, PhD

Rachel Rodgers

Associate Professor, Applied Psychology; Université de Toulouse-Le Mirail (France), PhD

Kirsten Rodine Hardy

Associate Professor, Political Science; University of California, Berkeley, PhD

Bruce Ronkin

Professor, Music; University of Maryland, DMA

Tayla Rose

Visiting Assistant Clinical Professor, Pharmacy and Health Systems Sciences; University of Connecticut, PharmD

Karyn Rosen

Associate Cooperative Education Coordinator, Computer and Information Science; Salem State College, MA

Rebeca B. Rosengaus

Associate Professor, Marine and Environmental Sciences; Boston University, PhD

James R. Ross

Associate Professor, Journalism; American University, MA

Martin E. Ross

Associate Professor, Marine and Environmental Sciences; University of Idaho, PhD

Alexandra Roth

Associate Academic Specialist, International Business and Strategy; University of Frankfurt (Germany), PhD

Amit K. Roy

Assistant Teaching Professor, Chemical Engineering; University of Calcutta (India), PhD

Jeffrey W. Ruberti

Professor, Bioengineering; Tulane University, PhD

Michael Ruff

Assistant Teaching Professor, Accounting; Bentley University, PhD

Timothy J. Rupert

Professor, Accounting; Pennsylvania State University, PhD

Ivan Rupnik

Associate Professor, Architecture; Harvard University, MArch

Bruce Russell

Associate Academic Specialist, Supply Chain and Information Management; National University of Ireland (Ireland), PhD

Matthais Ruth

Professor, Public Policy and Urban Affairs and Civil and Environmental Engineering; University of Illinois, Urbana-Champaign, PhD

S**Jane Saczynski**

Associate Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Pennsylvania State University, EdD

Hanai A. Sadaka

Lecturer, Mathematics; Northeastern University, PhD

J. Timothy Sage

Associate Professor, Physics; University of Illinois, Urbana-Champaign, PhD

Vinod Sahney

Professor, Mechanical and Industrial Engineering; University of Wisconsin, Madison, PhD

Masoud Salehi

Associate Professor, Electrical and Computer Engineering; Stanford University, PhD

Carmel Salhi

Assistant Professor, Health Sciences; Harvard University, ScD

William Sanchez

Associate Professor, Applied Psychology; Boston University, PhD

Nada Sanders

Distinguished Professor of Supply Chain Management, Supply Chain and Information Management; Ohio State University, PhD

Tova Sanders

Associate Teaching Professor, College of Professional Studies; George Washington University, EdD

Ronald L. Sandler

Professor, Philosophy and Religion; University of Wisconsin, Madison, PhD

Billye Sankofa-Waters

Associate Teaching Professor, College of Professional Studies; University of North Carolina, Chapel Hill, PhD

Ravi Sarathy

Professor, International Business and Strategy; University of Michigan, PhD

Linda Sarkisian

Assistant Cooperative Education Coordinator, D'Amore-McKim School of Business; Lynn University, MBA

Jennifer I. Sartori

Assistant Academic Specialist, Jewish Studies; Haverford College of Pennsylvania, PhD

Mehrdad Sasani-Kolori

Associate Professor, Civil and Environmental Engineering; University of California, Berkeley, PhD

Alicia Sasser Modestino

Associate Professor, Public Policy and Urban Affairs and Economics; Harvard University, PhD

Cynthia Satornino

Assistant Professor, Marketing; Florida State University, PhD

Behrooz (Barry) Satvat

Associate Teaching Professor, Chemical Engineering; Massachusetts Institute of Technology, ScD

Daniel Saulnier

Associate Cooperative Education Coordinator, College of Engineering; Babson College, MBA

Kevin Scanlon

Professor of the Practice, Entrepreneurship and Innovation; University of London (United Kingdom), PhD

Carmen Sceppa

Professor, Health Sciences; Francisco Marroquin University (Guatemala), MD; Tufts University, PhD

Martin Schedlbauer

Associate Clinical Professor, Computer and Information Science; University of Massachusetts, PhD

Gunar Schirner

Associate Professor, Electrical and Computer Engineering; University of California, Irvine, PhD

Ralf W. Schlosser

Professor, Communication Sciences and Disorders; Purdue University, PhD

Benjamin M. Schmidt

Assistant Professor, History; Princeton University, PhD

Paul Schreyer

Assistant Academic Specialist, World Languages Center; Western Maryland College, MEd

Alan Schroeder

Professor, Journalism; Harvard University, MPA

Egon Schulte

Professor, Mathematics; University of Dortmund (Germany), PhD

Kathryn Schulte Grahame

Associate Teaching Professor, Engineering; Columbia University, PhD

Joseph Schwartz

Assistant Teaching Professor, Communication Studies; University of Iowa, PhD

Martin Schwarz

Associate Professor, Mathematics; Courant Institute, PhD

Douglass Scott

Senior Lecturer, Art + Design; Yale University, MFA

Frank (Alex) Scott

Assistant Professor, Supply Chain and Information Management; Pennsylvania State University, PhD

Steven Scyphers

Assistant Professor, Marine and Environmental Sciences; University of South Alabama, PhD

Magy Seif El-Nasr

Associate Professor, Game Design; Northwestern University, PhD

Laura Senier

Assistant Professor, Sociology and Anthropology and Health Sciences; Brown University, PhD

Sumi Seo

Lecturer, Mathematics; University of Missouri, Columbia, PhD

Susan M. Setta

Associate Professor, Philosophy and Religion; Pennsylvania State University, PhD

Bahram Shafai

Professor, Electrical and Computer Engineering; George Washington University, ScD

Jayant M. Shah

Professor, Mathematics; Massachusetts Institute of Technology, PhD

Rebecca Shansky

Assistant Professor, Psychology; Yale University, PhD

Harvey D. Shapiro

Associate Clinical Professor, Education; Hebrew Union College, PhD

Nancy H. Sharby

Associate Clinical Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Northeastern University, DPT

William Sharp

Lecturer, Psychology; Boston Graduate School of Psychoanalysis, PhD

Gavin M. Shatkin

Associate Professor, Public Policy and Urban Affairs and Architecture; Rutgers University, PhD

Dennis R. Shaughnessy

Senior Academic Specialist, Entrepreneurship and Innovation; University of Maryland, JD

Margaret Shea

Associate Cooperative Education Coordinator, D'Amore-McKim School of Business; Boston University, BLS

Thomas C. Sheahan

Professor, Civil and Environmental Engineering; Massachusetts Institute of Technology, ScD

Sandra Shefelbine

Associate Professor, Mechanical and Industrial Engineering and Bioengineering; Stanford University, PhD

Paxton Sheldahl

Assistant Teaching Professor, Architecture; Harvard University, MArch

Eliot Sherman

Senior Lecturer, Finance; Bentley College, MST

H. David Sherman

Professor, Accounting; Harvard University, DBA

Amit Shesh

Associate Teaching Professor, Computer and Information Science; University of Minnesota, Twin Cities, PhD

Shiaoming Shi

Assistant Teaching Professor, Bioengineering; University of Pittsburgh, PhD

Craig Shillaber

Assistant Teaching Professor, Civil and Environmental Engineering; Virginia Polytechnic Institute and State University, MS

Olin Shivers

Professor, Computer and Information Science; Carnegie Mellon University, PhD

Mariya Shiyko

Assistant Professor, Applied Psychology; City University of New York, PhD

Aatmesh Shrivastava

Assistant Professor, Electrical and Computer Engineering; University of Virginia, Charlottesville, PhD

Brandon Sichling

Visiting Lecturer, Art + Design; Emerson College, MFA

Susan F. Sieloff

Senior Lecturer, Marketing; University of Michigan, MBA

Robert Sikes

Associate Professor, Physical Therapy, Movement, and Rehabilitation Sciences; University of Texas, Houston, PhD

Michael B. Silevitch

Robert Black Professor of Engineering and College of Engineering Distinguished Professor, Electrical and Computer Engineering; Northeastern University, PhD

Peter J. Simon

Teaching Professor, Economics; Northern Illinois University, PhD

Simon I. Singer

Professor, Criminology and Criminal Justice; University of Pennsylvania, PhD

Hanumant Singh

Professor, Electrical and Computer Engineering and Marine and Environmental Sciences; Massachusetts Institute of Technology, PhD

Sarah S. Sinwell

Assistant Teaching Professor, Media and Screen Studies; Indiana University, PhD

Rifat Sipahi

Associate Professor, Mechanical and Industrial Engineering; University of Connecticut, PhD

Michail V. Sitkovsky

Eleanor W. Black Chair in Immunophysiology and Pharmaceutical Biotechnology and Professor, Pharmaceutical Sciences and Biology; Moscow State University (Russia), PhD

Mark Sivak

Associate Teaching Professor, Art + Design and Engineering; Northeastern University, PhD

Andrew Skirvin

Associate Clinical Professor, Pharmacy and Health Systems Sciences; University of Texas, Austin, PharmD

Nikolai Slavov

Assistant Professor, Bioengineering; Princeton University, PhD

Rory Smead

Assistant Professor, Philosophy and Religion; University of California, Irvine, PhD

David A. Smith

Assistant Professor, Computer and Information Science; Johns Hopkins University, PhD

Gillian Smith

Assistant Professor, Computer and Information Science and Game Design; University of California, Santa Cruz, PhD

Keith Smith

Assistant Professor, Marketing; University of Georgia, PhD

Michael Smith

Assistant Teaching Professor, Architecture; Harvard University, MArch

Ronald Bruce Smith

Associate Professor, Music; University of California, Berkeley, PhD

Wendy A. Smith

College of Arts and Sciences Distinguished Associate Professor, Biology; Duke University, PhD

Eugene Smotkin

Professor, Chemistry and Chemical Biology; University of Texas, Austin, PhD

Bridget Smyser

Associate Teaching Professor, Mechanical and Industrial Engineering; Worcester Polytechnic Institute, PhD

Nancy P. Snyder

Associate Teaching Professor, Psychology; Harvard University, EdD

Claudia Sokol

Assistant Academic Specialist, World Languages Center; University of Buenos Aires (Argentina), MD

Marius M. Solomon

Professor, Supply Chain and Information Management; University of Pennsylvania, PhD

Susan J. Soroka

Assistant Teaching Professor, English; Drew University, PhD

Bert A. Spector

Associate Professor, International Business and Strategy; University of Missouri, PhD

Denise Spencer

Lecturer, Supply Chain and Information Management; Boston College, PhD

Karen M. Spikes

Lecturer, Psychology; Cornell University, PhD

Srinivas Sridhar

College of Arts and Sciences Distinguished Professor, Physics; California Institute of Technology, PhD

Thomas Starr

Professor, Art + Design; Yale University, MFA

Joshua Stefanik

Assistant Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Boston University School of Medicine, PhD

Mary Steffel

Assistant Professor, Marketing; Princeton University, PhD; University of Florida, PhD

Armen Stepanyants

Associate Professor, Physics; University of Rhode Island, PhD

Jennie Stephens

Professor, School of Public Policy and Urban Affairs; California Institute of Technology, PhD

Dagmar Sternad

Professor, Biology and Electrical and Computer Engineering; University of Connecticut, PhD

Sebastian Stockman

Assistant Teaching Professor, English; Emerson College, MFA

Milica Stojanovic

Professor, Electrical and Computer Engineering; Northeastern University, PhD

Janos Stone

Lecturer, Art + Design; Boston University, MFA

Michael Stone

Assistant Teaching Professor, Economics; University of Connecticut, PhD

Jacob I. Stowell

Associate Professor, Criminology and Criminal Justice; State University of New York, Albany, PhD

Tracy Strain

Professor of the Practice, Media and Screen Studies; Harvard University, MEd

Amy Stratman

Assistant Academic Specialist, College of Professional Studies; Simmons College, MAT

Phyllis R. Strauss

Matthews Distinguished University Professor, Biology; Rockefeller University, PhD

Heather Streets-Salter

Associate Professor, History; Duke University, PhD

Ming Su

Associate Professor, Chemical Engineering; Northwestern University, PhD

Fernando Suarez

Jean C. Tempel Professor, Entrepreneurship and Innovation; Massachusetts Institute of Technology, PhD

Alexandru I. Suci

Professor, Mathematics; Columbia University, PhD

Helen Suh

Professor, Health Sciences; Harvard University, ScD

Annemarie C. Sullivan

Clinical Instructor, Health Sciences; Northeastern University, MS

Denis J. Sullivan

Professor, Political Science and International Affairs; University of Michigan, PhD

Fareena Sultan

Professor, Marketing; Columbia University, PhD

Nian-Xiang Sun

Professor, Electrical and Computer Engineering; Stanford University, PhD

Ravi Sundaram

Professor, Computer and Information Science; Massachusetts Institute of Technology, PhD

Gloria Sutton

Assistant Professor, Art + Design; University of California, Los Angeles, PhD

John D. Swain

Associate Professor, Physics; University of Toronto (Canada), PhD

Richard S. Swasey Jr.

Senior Lecturer, Finance; University of Virginia, MBA

Jacqueline F. Sweeney

Senior Cooperative Education Coordinator, College of Arts, Media and Design; Northeastern University, MS

Nina Sylvanus

Assistant Professor, Sociology and Anthropology; Ecole des Hautes Etudes en Sciences Sociales, Paris (France), PhD

Lynne Sylvia

Clinical Professor, Pharmacy and Health Systems Sciences; Duquesne University, PharmD

Balazs Szelenyi

Associate Teaching Professor, CPS International Programs; University of California, Los Angeles, PhD

Mario Szaier

Dennis Picard Trustee Professor, Electrical and Computer Engineering; University of Washington, PhD

T

Gilead Tadmor

Professor, Electrical and Computer Engineering; Weizmann Institute of Science (Israel), PhD

Paul Tagliamonte

Visiting Lecturer, Supply Chain and Information Management; Boston College, MS

David Tamés

Visiting Assistant Teaching Professor, Art + Design; Massachusetts College of Art and Design, MFA

Lloyd Tanlu

Assistant Professor, Accounting; Harvard Business School, PhD

Peter Tarasewich

Assistant Teaching Professor, Supply Chain and Information Management; University of Connecticut, PhD

Mary Suzanne Tarmina

Associate Clinical Professor, Nursing; University of Utah, PhD

Mohammad E. Taslim

Professor, Mechanical and Industrial Engineering; University of Arizona, PhD

Tomasz Taylor

Professor, Physics; University of Warsaw (Poland), PhD

Philip Thai

Assistant Professor, History; Stanford University, PhD

Ganesh Thakur

Associate Professor, Pharmaceutical Sciences; Institute of Chemical Technology (India), PhD

Anna F. Thimsen

Postdoctoral Teaching Associate, Communication Studies; University of North Carolina, PhD

Helen Thomas

Lecturer, Management and Organizational Development; Indiana University, PhD

Ronald S. Thomas

Senior Lecturer, International Business and Strategy; Harvard University, PhD

Mary Thompson-Jones

Professor of the Practice, College of Professional Studies; University of Pennsylvania, EdD

Jamal Thorne

Assistant Teaching Professor, Art + Design; Northeastern University, MFA

George Thrush

Professor, Architecture; Harvard University, MArch

Stefanie Tignor

Visiting Assistant Professor, Marketing; Northeastern University, PhD

Jonathan Tilly

University Distinguished Professor, Biology; Rutgers, the State University of New Jersey, PhD

Devesh Tiwari

Assistant Professor, Electrical and Computer Engineering; North Carolina State University, PhD

Gordana G. Todorov

Professor, Mathematics; Brandeis University, PhD

Alessio Tognetti

Assistant Academic Specialist, World Languages Center; University of Washington, MA

Valerio Toledano Laredo

Professor, Mathematics; University of Cambridge (United Kingdom), PhD

Michael C. Tolley

Associate Professor, Political Science; Johns Hopkins University, PhD

Iraz Topaloglu

Assistant Cooperative Education Coordinator, College of Engineering; California State University, Long Beach, MS

Peter Topalov

Associate Professor, Mathematics; Moscow State University (Russia), PhD

Vladimir P. Torchilin

University Distinguished Professor, Pharmaceutical Sciences; Moscow State University (Russia), PhD, DSc

Ali Touran

Professor, Civil and Environmental Engineering; Stanford University, PhD

Emery A. Trahan

Professor, Finance; State University of New York, Albany, PhD

Andrew Trotman

Assistant Professor, Accounting; Bond University (Australia), PhD

Geoffrey C. Trussell

Professor, Marine and Environmental Sciences; College of William and Mary, PhD

Kumiko Tsuji

Assistant Academic Specialist, World Languages Center; Georgetown University, PhD

Eugene Tunik

Associate Professor, Physical Therapy, Movement, and Rehabilitation Sciences; Rutgers University, PhD

Berna Turam

Professor, International Affairs and Sociology and Anthropology; McGill University (Canada), PhD

Ayten Turkcan Upasani

Assistant Professor, Mechanical and Industrial Engineering; Bilkent University, Ankara (Turkey), PhD

Bonnie TuSmith

Associate Professor, English; Washington State University, PhD

Esther Tutella

Assistant Academic Specialist, College of Professional Studies; Vanderbilt University, MEd

U**Rafael Ubal Tena**

Assistant Teaching Professor, Electrical and Computer Engineering; Universidad Politecnica de Valencia (Spain), PhD

Jonathan Ullman

Assistant Professor, Computer and Information Science; Harvard University, PhD

Annique Un

Associate Professor, International Business and Strategy; Massachusetts Institute of Technology, PhD

Christopher Unger

Assistant Teaching Professor, College of Professional Studies; Harvard University, PhD

Steven R. Untersee

Lecturer, Biology; Tufts University, PhD

Moneesh Upmanyu

Associate Professor, Mechanical and Industrial Engineering; University of Michigan, PhD

Daniel Urman

Assistant Teaching Professor, College of Professional Studies; Harvard University, JD

V**Steven P. Vallas**

Professor, Sociology and Anthropology; Rutgers University, PhD

Jenny A. Van Amburgh

Clinical Professor, Pharmacy and Health Systems Sciences; Albany College of Pharmacy, PharmD

Bobbi Van Gilder

Postdoctoral Teaching Associate, Communication Studies; University of Oklahoma, PhD

Kathi Vander Laan

Assistant Cooperative Education Coordinator, Computer and Information Science; Salem State University, MBA

Jan Vanselow

Associate Cooperative Education Coordinator, College of Engineering; Northeastern University, MS

Ashkan Vaziri

Associate Professor, Mechanical and Industrial Engineering; Northeastern University, PhD

Silvani Vejar

Assistant Academic Specialist, College of Professional Studies;
University of Massachusetts, Lowell, MS

Oana Veliche

Lecturer, Mathematics; Purdue University, PhD

Venkata Vemuri

Research Assistant Professor, Pharmaceutical Sciences; Osmania
University (India), PhD

Anand Venkateswaran

Associate Professor and Chase Research Fellow, Finance; Georgia State
University, PhD

Susan H. Ventura

Associate Clinical Professor, Physical Therapy, Movement, and
Rehabilitation Sciences; Northeastern University, PhD

Alessandro Vespignani

Distinguished Professor and Sternberg Family Endowed Chair, Physics
and Health Sciences and Computer and Information Science; University
of Rome La Sapienza (Italy), PhD

Gustavo Vicentini

Assistant Teaching Professor, Economics; Boston University, PhD

Thomas J. Vicino

Associate Professor, Political Science; University of Maryland, PhD

Emanuele Viola

Associate Professor, Computer and Information Science; Harvard
University, PhD

Jan Vitek

Professor, Computer and Information Science; University of Geneva
(Switzerland), PhD

Olga Vitek

Sy and Laurie Sternberg Interdisciplinary Associate Professor, Chemistry
and Chemical Biology and Computer and Information Science; Purdue
University, PhD

Steven Vollmer

Associate Professor, Marine and Environmental Sciences; Harvard
University, PhD

Robert J. Volpe

Associate Professor, Applied Psychology; Lehigh University, PhD

Erik Voss

Associate Teaching Professor, CPS International Programs; Iowa State
University, PhD

Paul Vouros

Professor, Chemistry and Chemical Biology; Massachusetts Institute of
Technology, PhD

W

Sara Wadia-Fascetti

Professor, Civil and Environmental Engineering; Stanford University, PhD

Nancy Waggner

Associate Cooperative Education Coordinator, Pharmaceutical Sciences;
Suffolk University, JD

Thomas Wahl

Assistant Professor, Computer and Information Science; University of
Texas, Austin, PhD

Thomas Wales

Research Associate Professor, Chemistry and Chemical Biology; Duke
University, PhD

Jacob Walker

Assistant Cooperative Education Coordinator, College of Engineering;
Northeastern University, MS

Louise E. Walker

Associate Professor, History; Yale University, PhD

Rachel Walsh

Assistant Cooperative Education Coordinator, College of Engineering;
Suffolk University, MS

Robin Walters

Postdoctoral Teaching Associate, Psychology; University of Chicago, PhD

Suzanna Danuta Walters

Professor, Sociology and Anthropology and Women's, Gender, and
Sexuality Studies; City University of New York, PhD

Richard G. Wamai

Associate Professor, African-American Studies; University of Helsinki
(Finland), PhD

Kai-tak Wan

Associate Professor, Mechanical and Industrial Engineering; University of
Maryland, College Park, PhD

Lu Wang

Assistant Professor, Computer and Information Science; Cornell
University, PhD

Ming Wang

College of Engineering Distinguished Professor, Civil and Environmental
Engineering; University of New Mexico, PhD

Qi Wang

Assistant Professor, Civil and Environmental Engineering; Virginia
Polytechnic Institute and State University, PhD

Meni Wanunu

Assistant Professor, Physics; Weizmann Institute of Science (Israel), PhD

Robert J. Ward

Lecturer, Music; University of California, San Diego, MA

Gregory H. Wassall

Associate Professor, Economics; Rutgers University, PhD

Barbara L. Waszczak

Professor, Pharmaceutical Sciences; University of Michigan, PhD

Maureen Watkins

Assistant Clinical Professor, Physical Therapy, Movement, and
Rehabilitation Sciences; Northeastern University, DPT

Natalya Watson

Assistant Teaching Professor, CPS International Programs; University of
Colorado, PhD

Dov Waxman

Professor, Political Science and International Affairs; Johns Hopkins University, PhD

Thomas J. Webster

Professor, Chemical Engineering; Rensselaer Polytechnic Institute, PhD

Liza Weinstein

Assistant Professor, Sociology and Anthropology; University of Chicago, PhD

Michael Weintraub

Associate Clinical Professor, Computer and Information Science; Ohio State University, PhD

Jonathan Weitsman

Robert G. Stone Professor, Mathematics; Harvard University, PhD

Brandon C. Welsh

Professor, Criminology and Criminal Justice; University of Cambridge (United Kingdom), PhD

Edward G. Wertheim

Associate Professor, Management and Organizational Development; Yeshiva University (Israel), PhD

Richard West

Assistant Professor, Chemical Engineering; University of Cambridge (United Kingdom), PhD

Alan West-Durán

Associate Professor, Languages, Literatures, and Cultures; New York University, PhD

Richard Whalen

Teaching Professor, Engineering; Northeastern University, PhD

Ronald M. Whitfield

Assistant Academic Specialist, Finance; University of Pennsylvania, PhD

Paul Whitford

Assistant Professor, Physics; University of California, San Diego, PhD

John Whitney

Assistant Professor, Mechanical and Industrial Engineering; Harvard University, PhD

Daniel Wicks

Assistant Professor, Computer and Information Science; New York University, PhD

Allan Widom

Professor, Physics; Cornell University, PhD

Peter H. Wiederspahn

Associate Professor, Architecture; Harvard University, MArch

John Wihbey

Assistant Professor, Journalism; Columbia University, MS

Ronald J. Willey

Professor, Chemical Engineering; University of Massachusetts, Amherst, PhD

Mark C. Williams

Professor, Physics; University of Minnesota, PhD

Stephen Williams

Assistant Cooperative Education Coordinator, College of Social Sciences and Humanities; Suffolk University, JD

Christo Wilson

Assistant Professor, Computer and Information Science; University of California, Santa Barbara, PhD

Sheila Winborne

Visiting Lecturer, Philosophy and Religion; Harvard University, PhD

Frederick Wiseman

Professor, Supply Chain and Information Management; Cornell University, PhD

John Wolfe

Associate Teaching Professor, College of Professional Studies; Columbia University, EdD

Paul Wolff

Assistant Cooperative Education Coordinator, College of Engineering; University of Pennsylvania, PhD

Darien Wood

Professor, Physics; University of California, Berkeley, PhD

Dori Woods

Assistant Professor, Biology; University of Notre Dame, PhD

Adam Woolley

Assistant Clinical Professor, Pharmacy and Health Systems Sciences; Massachusetts College of Pharmacy, PharmD

Lisa C. Worsh

Senior Cooperative Education Coordinator, College of Social Sciences and Humanities; Bridgewater State College, MEd

Nicole Wright

Assistant Professor, Accounting; Virginia Polytechnic Institute and State University, PhD

Shu-Shih Wu

Lecturer, Mathematics; Northeastern University, PhD

Sara A. Wylie

Assistant Professor, Sociology and Anthropology and Health Sciences; Massachusetts Institute of Technology, PhD

X**Yu (Amy) Xia**

Associate Professor, Supply Chain and Information Management; Washington State University, PhD

Y**Shiawee X. Yang**

Associate Professor, Finance; Pennsylvania State University, PhD

Mishac K. Yegian

College of Engineering Distinguished Professor, Civil and Environmental Engineering; Massachusetts Institute of Technology, PhD

Edmund Yeh

Associate Professor, Electrical and Computer Engineering; Massachusetts Institute of Technology, PhD

Benjamin Yelle

Assistant Teaching Professor, Philosophy and Religion; University of Miami, PhD

Sheng-Che Yen

Assistant Professor, Physical Therapy, Movement, and Rehabilitation Sciences; New York University, PhD

Mark L. Yorra

Senior Cooperative Education Coordinator, Bouvé College of Health Sciences; Northeastern University, EdD

Gary Young

Professor, International Business and Strategy and Health Sciences; State University of New York, Buffalo, PhD

Lydia Young

Associate Teaching Professor, College of Professional Studies; Boston College, PhD

Sara C. Young-Hong

Clinical Instructor, Communication Sciences and Disorders; University of Pittsburgh, MA

Shuishan Yu

Associate Professor, Architecture; University of Washington, PhD

Jennifer Yule

Assistant Academic Specialist, Marketing; Glasgow Caledonian University (Scotland), PhD

Z

Nizar Zaarour

Assistant Teaching Professor, Supply Chain and Information Management; Northeastern University, PhD

Michelle Zaff

Assistant Cooperative Education Coordinator, College of Social Sciences and Humanities; Suffolk University, JD

Christos Zahopoulos

Associate Professor, Education; Northeastern University, PhD

Carl Zangerl

Assistant Teaching Professor, College of Professional Studies; University of Illinois, PhD

Alan J. Zarembo

Associate Professor, Communication Studies; State University of New York, Buffalo, PhD

Michele Jade Zee

Assistant Teaching Professor, Behavioral Neuroscience; University of Oregon, PhD

Ibrahim Zeid

Professor, Mechanical and Industrial Engineering; University of Akron, PhD

Edward David Zepeda

Assistant Professor, Supply Chain and Information Management; University of Minnesota, PhD

David P. Zgarrick

Professor, Pharmacy and Health Systems Sciences; Ohio State University, PhD

Ke Zhang

Assistant Professor, Chemistry and Chemical Biology; Washington University, St. Louis, PhD

Yue May Zhang

Associate Professor, Accounting; University of Pittsburgh, PhD

Ting Zhou

Associate Professor, Mathematics; University of Washington, PhD

Zhaohui Zhou

Professor, Chemistry and Chemical Biology; Scripps Research Institute, PhD

Hongli Zhu

Assistant Professor, Mechanical and Industrial Engineering; South China University of Technology (China), PhD

Sally Tebbourne Ziane

Associate Academic Specialist, World Languages Center; University of Paris XIII (France), PhD

Nathaniel Ziegler

Assistant Cooperative Education Coordinator, College of Engineering; Indiana University of Pennsylvania, MEd

Katherine S. Ziemer

Professor, Chemical Engineering; West Virginia University, PhD

Emily Zimmerman

Assistant Professor, Communication Sciences and Disorders; University of Kansas, PhD

Gregory M. Zimmerman

Assistant Professor, Criminology and Criminal Justice; State University of New York, Albany, PhD

Kathrin Zippel

Associate Professor, Sociology and Anthropology; University of Wisconsin, Madison, PhD

Ronald Zullo

Lecturer, Accounting; Bentley University, MS

Günther K. H. Zupanc

Professor, Biology; University of California, San Diego, PhD; University of Tübingen (Germany), Dr. rer. nat. habil.

Nikolai Zvonok

Research Assistant Professor, Pharmaceutical Sciences; Russian Academy of Sciences (Russia), PhD

Appendix

- Governing Boards and Officers of Northeastern (p. 901)
- Administrative Organization (p. 902)
- Statements of Accreditation (p. 903)
- Resources (p. 905)
- General Information (p. 905)

Governing Boards and Officers of Northeastern

Officers of the Corporation and Board of Trustees 2016–2017

Henry J. Nasella, *Chair*

Richard A. D'Amore, *Vice Chair*

Edward G. Galante, *Vice Chair*

Katherine S. McHugh, *Vice Chair*

Alan S. McKim, *Vice Chair*

OFFICERS EMERITAE/I

Neal F. Finnegan, *Chair Emeritus*

Sy Sternberg, *Chair Emeritus*

George D. Behrakis, *Vice Chair Emeritus*

George W. Chamillard, *Vice Chair Emeritus*

Richard P. Chapman Jr., *Vice Chair Emeritus*

H. Patricia Hanna, *Vice Chair Emerita*

Frederic T. Hersey, *Vice Chair Emeritus*

Robert C. Marini, *Vice Chair Emeritus*

Richard C. Ockerbloom, *Vice Chair Emeritus*

Carole J. Shapazian, *Vice Chair Emerita*

Jean C. Tempel, *Vice Chair Emerita*

Alan D. Tobin, *Vice Chair Emeritus*

Members of the Board of Trustees

Barbara C. Alleyne

Jeffrey S. Bornstein

Nonnie S. Burnes

Peter B. Cameron

Jeffrey J. Clarke

William J. Conley

William J. Cotter

William "Mo" Cowan

Richard A. D'Amore

Susan Deitch

Deborah Dunsire

Edmond J. English

Spencer T. Fung

Edward G. Galante

Lucian Grainge CBE

David L. House

William S. Howard

Frances N. Janis

Chet Kanojia

Venetia G. Kontogouris

William A. Lowell

Todd M. Manganaro

Katherine S. McHugh

Alan S. McKim

David J. Mondragon

Henry J. Nasella

Anita Nassar

Kathryn M. Nicholson

James J. Pallotta

John V. Pulichino

Marcy L. Reed

Winslow L. Sargeant

Ronald L. Sargent

Sy Sternberg

Melina Travlos

Joseph M. Tucci

Christopher A. Viehbacher

Arthur W. Zafiropoulo

Michael J. Zamkow

EX-OFFICIO

Joseph E. Aoun

George D. Behrakis

TRUSTEES EMERITAE/I

George D. Behrakis

Margot Botsford

Frederick Brodsky

Frederick L. Brown

Louis W. Cabot

George W. Chamillard

Richard P. Chapman Jr.

John J. Cullinane

Harry T. Daniels

Ruth S. Felton

James V. Fetchero

Neal F. Finnegan

W. Kevin Fitzgerald

H. Patricia Hanna

Frederic T. Hersey

Arnold S. Hiatt

J. Philip Johnston

Richard G. Lesser

Diane H. Lupean

Anthony R. Manganaro

Robert C. Marini

Roger M. Marino

Lloyd J. Mullin

Richard C. Ockerbloom

Arthur A. Pappas

Thomas L. Phillips

Dennis J. Picard

Ronald L. Rossetti

Carole J. Shapazian

Robert J. Shillman

Janet M. Smith

Stephen J. Sweeney

Jean C. Tempel

W. Nicholas Thorndike

Alan D. Tobin

James L. Waters

Catherine A. White

Ellen M. Zane

HONORARY TRUSTEES

Scott M. Black

Chad Gifford

Kuntoro Mangkusubroto

Lucille R. Zanghi

Other Members of the Corporation

Salah Al-Wazzan
 Quincy L. Allen
 Tarek As'ad
 Robert J. Awkward
 Vincent F. Barletta
 Richard L. Bready
 John F. Burke
 Louise Firth Campbell
 Lawrence G. Cetrulo
 Nassib G. Chamoun
 William D. Chin
 Steven J. Cody
 Daniel T. Condon
 Timothy J. Connelly
 Richard J. DeAgazio
 Kevin A. DeNuccio
 Robin W. Devereux
 Priscilla H. Douglas
 Adriane J. Dudley
 Gary C. Dunton
 Michael J. Egan
 Lisa D. Foster
 Michael F. Gries
 Nancy E. B. Haynes
 Manuel A. Henriquez
 Charles C. Hewitt III
 Roderick Ireland
 Lisette C. Jetzer
 Karen C. Koh
 Mark A. Krentzman
 Mary Kay Leonard
 M. Benjamin Lipman
 George A. MacConnell
 Susan B. Major
 Paul V. McDonough
 Thomas P. McDonough
 Kathleen A. McFeeters
 Susan A. Morelli
 James Q. Nolan Jr.
 Peter J. Ogren
 Lawrence A. O'Rourke
 Leonard Perham
 Valerie W. Perlowitz
 Steven Picheny
 John E. Pritchard
 Eugene M. Reppucci Jr.
 Rhondella Richardson
 David J. Ryan
 George P. Sakellaris
 Jeannine P. Sargent
 Richard Schoenfeld
 Peter J. Smail
 Shelley Stewart Jr.
 Alexander L. Thorndike
 Gordon O. Thompson
 Mark L. Vachon
 Laurie B. Werner
 E. Leo Whitworth
 Donald K. Williams Jr.
 Donald L. Williams

Richard R. Yuse

Administrative Organization**Officers of the University**

Joseph E. Aoun, BA, MA, PhD, *President*
 Michael A. Armini, BA, MA, *Senior Vice President for External Affairs*
 James C. Bean, BS, MS, PhD, *Provost and Senior Vice President for Academic Affairs*
 Diane Nishigaya MacGillivray, BA, MA, *Senior Vice President for University Advancement*
 Philomena V. Mantella, BS, MSW, PhD, *Senior Vice President and CEO of the Northeastern University Global Network*
 Ralph C. Martin II, BA, JD, *Senior Vice President and General Counsel*
 Thomas Nedell, BA, MBA, *Senior Vice President for Finance and Treasurer*

Academic Deans

Nadine Aubry, BS, MS, PhD, *Dean of the College of Engineering*
 Carla E. Brodley, BA, MS, PhD, *Dean of the College of Computer and Information Science*
 Hugh G. Courtney, BA, PhD, *Dean of the D'Amore-McKim School of Business*
 Kenneth W. Henderson, BSc, PhD, *Dean of the College of Science*
 Elizabeth Hudson, BA, MA, PhD, *Dean of the College of Arts, Media and Design*
 Mary Loeffelholz, BA, MA, PhD, *Interim Dean of the College of Professional Studies*
 Jeremy Paul, AB, JD, *Dean of the School of Law*
 Uta Poiger, BA, MA, AM, PhD, *Dean of the College of Social Sciences and Humanities*
 Jack Reynolds, BS, PharmD, *Interim Dean of Bouvé College of Health Sciences*

Vice Provosts

Susan Ambrose, BA, MA, PhD, *Senior Vice Provost for Undergraduate Education and Experiential Learning*
 John Armendariz, EdD, *Vice Provost for Institutional Diversity and Inclusion*
 Debra Franko, BA, PhD, *Interim Vice Provost for Academic Affairs*
 Arthur F. Kramer, BS, PhD, *Senior Vice Provost for Research and Graduate Education*
 Anthony Rini, BA, MPA, EdD, *Vice Provost for Budget, Planning, and Administration*

Vice Presidents

Greg Condell, BA, MBA, *Vice President for Finance*
 Rick Davis, BS, MA, *Vice President for Alumni Relations*
 Joseph J. Donnelly Jr., BA, *Vice President for Advancement and Campaign Director*
 Nicholas F. Ducoff, BBA, JD, *Vice President for New Ventures*
 Madeleine A. Estabrook, AB, JD, *Vice President for Student Affairs and Dean of Students*
 Seamus Harreys, BA, EdM, MBA, *Vice President for Business Affairs, Graduate Campuses*
 Rehan Khan, BS, MBA, *Vice President and Chief Information Officer*
 Luanne M. Kirwin, BA, MA, *Vice President of Development*
 Sundar Kumarasamy, BA, MS, *Vice President for Enrollment Management*
 Vincent J. Lembo, BA, JD, *Vice President and Senior Counsel*
 Timothy E. Leshan, BA, MPA, *Vice President for Government Relations*
 Chris Mallet, BS, MPA, *Vice President of Online Programs*
 Nancy May, AS, BS, *Vice President for Facilities*
 Katherine N. Pendergast, BA, MEd, *Vice President for Human Resources Management*
 Lisa Sinclair, BA, JD, *Vice President of Legal Affairs*

Kathy Spiegelman, BA, MS, *Vice President, Chief of Campus Planning and Development*

Brian Sullivan, BS, MBA, *Vice President and Chief Marketing Officer*

John Tobin, BA, *Vice President for City and Community Affairs*

Other Administrative Leaders

Linda D. Allen, BA, MEd, *Assistant Vice President and University Registrar*

Michael A. Davis, BA, MA, *Director of Public Safety and Chief of Police*

James R. Hackney, AB, JD, *Chief of Staff, Senior Strategy Advisor, and Professor of Law*

Renata Nyul, BA, MS, *Assistant Vice President for Communications*

Peter P. Roby, BA, MS, *Director of Athletics and Recreation*

Kerry Salerno, BS, MBA, *Assistant Vice President for Enrollment and Dean of Admissions and Marketing*

William Wakeling, BA, MA, MA, *Dean, University Libraries*

Statements of Accreditation

Accreditation

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)
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 (<http://www.northeastern.edu/online/about-northeastern-online/state-agreements.php>) for up-to-date, state-prescribed regulatory information.

Resources

Online Resources

The following online resources supplement this catalog:

Course descriptions:

www.northeastern.edu/registrar/banner-catalog.html (<http://www.northeastern.edu/registrar/banner-catalog.html>)

Class schedules:

www.northeastern.edu/registrar/banner-schedule.html (<http://www.northeastern.edu/registrar/banner-schedule.html>)

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 2015, the persistence rate for students who entered in the fall 2014 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.

Index

About Sample Curricula	44	Art History, Minor	85
Academic Honors	28	Art, Minor	84
Academic Integrity Policy	22	Art with Concentration in Visual Studies, BA	56
Academic Policies and Procedures	22	Asian Studies	591
Academic Progression Standards	28	Asian Studies, BA	592
Accommodations for Students with Disabilities	16	Attendance Requirements	22
Accommodations for Students with Disabilities	22	Bachelor of Science in Business Administration with Concentration in Accounting, BSBA	170
Accounting	169	Bachelor of Science in Business Administration with Concentration in Entrepreneurship and Innovation, BSBA	178
Additional Requirements for BA Students	37	Bachelor of Science in Business Administration with Concentration in Finance, BSBA	186
Administrative Organization	902	Bachelor of Science in Business Administration with Concentration in Finance, BSBA/Master of Science in Finance, MSF	193
Admission	9	Bachelor of Science in Business Administration with Concentration in Finance, BSBA/Master of Science in Finance, MSF	193
Admission Policy and Entrance Requirements	9	Bachelor of Science in Business Administration with Concentration in Management, BSBA	196
African Studies, Minor	586	Bachelor of Science in Business Administration with Concentration in Management Info. Systems, BSBA	204
African-American Studies	582	Bachelor of Science in Business Administration with Concentration in Marketing, BSBA	212
African-American Studies, BA	582	Bachelor of Science in Business Administration with Concentration in Supply Chain Management, BSBA	220
African-American Studies, BS	584	Bachelor of Science in International Business, BSIB/International Management, MSIM	249
African-American Studies, Minor	586	Bachelor of Science in International Business with Conc. in Entrepreneurship and Innovation, BSIB	182
American Political Institutions, Minor	836	Bachelor of Science in International Business with Conc. in Management Information Systems, BSIB	208
American Sign Language and Human Services, BS	588	Bachelor of Science in International Business with Concentration in Accounting, BSIB	173
American Sign Language and Human Services, BS	682	Bachelor of Science in International Business with Concentration in Finance, BSIB	189
American Sign Language and Psychology, BS	565	Bachelor of Science in International Business with Concentration in Management, BSIB	200
American Sign Language and Psychology, BS	588	Bachelor of Science in International Business with Concentration in Marketing, BSIB	216
American Sign Language and Theatre, BS	165	Bachelor of Science in International Business with Concentration in Supply Chain Management, BSIB	224
American Sign Language and Theatre, BS	590	Behavioral Neuroscience	457
American Sign Language, BS	587	Behavioral Neuroscience, BS	458
American Sign Language, Minor	591	Behavioral Neuroscience, Minor	460
American Sign Language—English Interpreting	586	Bill Payment	17
Animation, Minor	84	Biochemical Engineering, Minor	361
Appendix	901	Biochemistry	461
Applied Physics, BS	534		
Applied Physics, BS/Engineering, MS	394		
Applied Physics, BS/Engineering, MS	559		
Arabic, Minor	745		
Architectural History, Minor	51		
Architectural Studies, BS	49		
Architecture, BS	47		
Army, Air Force, and Navy Reserve Officers' Training Corps (ROTC) Programs	43		
Art + Design	52		
Art, BA	54		

Biochemistry, BS	461	Civil Engineering, BSCE	362
Biochemistry/Biotechnology, BS/MS	463	College Expenses	17
Bioengineering	338	College of Arts, Media and Design	46
Bioengineering, BSBioE	339	College of Computer and Information Science	256
Bioengineering, BSBioE/Engineering Management, MS	342	College of Engineering	335
Bioengineering, BSBioE/MS	346	College of Science	457
Biology	464	College of Social Sciences and Humanities	575
Biology and English, BS	467	Communication Sciences and Disorders	434
Biology and English, BS	647	Communication Sciences and Disorders, Minor	435
Biology and Mathematics, BS	470	Communication Studies	88
Biology and Mathematics, BS	517	Communication Studies and Media and Screen Studies, BA	91
Biology and Political Science, BS	471	Communication Studies and Media and Screen Studies, BA	125
Biology and Political Science, BS	806	Communication Studies and Sociology, BA	93
Biology, BS	465	Communication Studies and Sociology, BA	841
Biology, BS/Biotechnology, MS	475	Communication Studies, BA	89
Biology, BS/PhD	476	Communication Studies, Minor	107
Biology, Minor	477	Computational Data Analytics, Minor	400
Biomechanical Engineering, Minor	431	Computer and Information Science Combined Majors	274
Biomedical Engineering, Minor	399	Computer Engineering and Computer Science, BSCompE	276
Biomedical Physics, BS	539	Computer Engineering and Computer Science, BSCompE	381
Bouvé College of Health Sciences	433	Computer Engineering and Physics, BSCompE	384
Business Administration and Interactive Media, BS	75	Computer Engineering and Physics, BSCompE	552
Business Administration and Interactive Media, BS	228	Computer Engineering, BS/Electrical and Computer Engineering, MS ...	395
Business Administration Combined Majors	228	Computer Engineering, BS/Engineering Management, MS	397
Business Administration, Minor	252	Computer Engineering, BSCompE	378
Business Administration PlusOne Programs	246	Computer Engineering, Minor	401
Cell and Molecular Biology, BS	466	Computer Science	256
Chemical Engineering	349	Computer Science and Biology, BS	279
Chemical Engineering and Physics, BSCHE	353	Computer Science and Biology, BS	473
Chemical Engineering and Physics, BSCHE	550	Computer Science and Business Administration, BS	231
Chemical Engineering, BS/ Engineering Management, MS	358	Computer Science and Business Administration, BS	281
Chemical Engineering, BS/MS	355	Computer Science and Cognitive Psychology, BS	285
Chemical Engineering, BSCHE	350	Computer Science and Cognitive Psychology, BS	566
Chemistry and Chemical Biology	477	Computer Science and Communication Studies, BS	95
Chemistry, BS	478	Computer Science and Communication Studies, BS	288
Chemistry, BS/MS	481	Computer Science and Criminal Justice, BS	290
Chemistry, Minor	482	Computer Science and Criminal Justice, BS	597
Chinese, Minor	745	Computer Science and Digital Art, BS	78
Cinema Studies, Minor	138	Computer Science and Digital Art, BS	293
Civil and Environmental Engineering	362	Computer Science and English, BS	295
Civil Engineering, BS/ Engineering Management, MS	369	Computer Science and English, BS	633
Civil Engineering, BS/ Sustainable Building Systems, MS	373	Computer Science and Environmental Science, BS	298
Civil Engineering, BS/MS	365	Computer Science and Environmental Science, BS	505

Computer Science and Game Development, BS	113	Data Science	272
Computer Science and Game Development, BS	300	Data Science, BS	272
Computer Science and History, BS	302	Degrees, Majors, and Minors	29
Computer Science and History, BS	660	Design, BFA	61
Computer Science and Information Science, BS	275	Digital Art and Game Design, BFA	73
Computer Science and Interactive Media, BS	80	Digital Art and Game Design, BFA	111
Computer Science and Interactive Media, BS	306	Early Intervention, Minor	440
Computer Science and Journalism, BS	118	East Asian Studies, Minor	593
Computer Science and Journalism, BS	309	Economics	608
Computer Science and Linguistics, BS	310	Economics and Business Administration, BS	235
Computer Science and Linguistics, BS	485	Economics and Business Administration, BS	621
Computer Science and Mathematics, BS	312	Economics and Mathematics, BS	520
Computer Science and Mathematics, BS	518	Economics and Mathematics, BS	624
Computer Science and Mathematics, BS/MS	314	Economics and Philosophy, BS	624
Computer Science and Mathematics, BS/MS	526	Economics and Philosophy, BS	773
Computer Science and Music with Concentration in Music Composition and Technology, BS	147	Economics, BA	609
Computer Science and Music with Concentration in Music Composition and Technology, BS	316	Economics, BA/MA	626
Computer Science and Philosophy, BS	318	Economics, BS	610
Computer Science and Philosophy, BS	757	Economics, BS/MA	628
Computer Science and Physics, BS	320	Economics, Minor	629
Computer Science and Physics, BS	544	Education	42
Computer Science and Sociology, BS	322	Electrical and Computer Engineering	376
Computer Science and Sociology, BS	843	Electrical and Computer Engineering, BSEE or BSCompE	391
Computer Science, BACS	262	Electrical Engineering and Physics, BSEE	389
Computer Science, BSCS	257	Electrical Engineering and Physics, BSEE	554
Computer Science, BSCS/MSCS	264	Electrical Engineering, BS/Electrical and Computer Engineering, MS	397
Computer Science, Minor	266	Electrical Engineering, BS/Engineering Management, MS	399
Computer Science with Concentration in Cyber Operations, BSCS	260	Electrical Engineering, BSEE	386
Cooperative Education	38	Electrical Engineering, Minor	401
Course Credit Guidelines	26	Emerging Markets, Minor	252
Criminal Justice and Political Science, BS	600	English	630
Criminal Justice and Political Science, BS	808	English and Communication Studies, BA	96
Criminal Justice and Psychology, BS	568	English and Communication Studies, BA	636
Criminal Justice and Psychology, BS	602	English and Cultural Anthropology, BA	638
Criminal Justice, BS	594	English and Cultural Anthropology, BA	846
Criminal Justice, BS/JD	606	English and Graphic and Information Design, BA	58
Criminal Justice, BS/MS	605	English and Graphic and Information Design, BA	640
Criminal Justice, Minor	607	English, BA	630
Cultural Anthropology, BA	839	English, BA/MA	649
Cultural Anthropology, BS	857	English, Minor	652
Cultural Anthropology, Minor	864	English-Language Testing	16
D'Amore-McKim School of Business	168	Entrepreneurial Engineering, Minor	336
		Entrepreneurship and Innovation	177

Entrepreneurship, Minor	253	Governing Boards and Officers of Northeastern	901
Environmental Geology and Chemistry, BS	480	Grading System	26
Environmental Geology and Chemistry, BS	507	Graduation Requirements	29
Environmental Geology, Minor	511	Graphic and Information Design and Mathematics, BS	83
Environmental Science, BS	494	Graphic and Information Design and Mathematics, BS	521
Environmental Science, Minor	510	Graphic and Information Design, Minor	86
Environmental Studies	482	Health Requirements—University Health and Counseling Services (UHCS)	16
Environmental Studies and Economics, BS	482	Health Science, BS	437
Environmental Studies and Economics, BS	625	Health Science, BS/MPH	438
Environmental Studies and History, BA	482	Health Science, Minor	439
Environmental Studies and History, BA	656	Health Sciences	436
Environmental Studies and International Affairs, BA	482	History	652
Environmental Studies and International Affairs, BA	701	History, BA	653
Environmental Studies and Philosophy, BA	482	History, BA/JD	668
Environmental Studies and Philosophy, BA	759	History, BA/MA	664
Environmental Studies and Political Science, BA	482	History, BS	657
Environmental Studies and Political Science, BA	786	History, BS/JD	668
Environmental Studies, BA	482	History, BS/MA	666
Environmental Studies, Minor	482	History, Minor	668
Ethics, Minor	781	Human Services	668
Ethnomusicology, Minor	151	Human Services and Communication Studies, BA	99
Exercise Science, Minor	440	Human Services and Communication Studies, BA	683
Experience Design, Minor	85	Human Services and Criminal Justice, BS	603
Experiential Learning	38	Human Services and Criminal Justice, BS	684
Family Educational Rights and Privacy Act (FERPA)	31	Human Services and International Affairs, BA	673
Film and International Cultures, Minor	746	Human Services and International Affairs, BA	705
Film Production, Minor	138	Human Services and Sociology, BA	677
Final Examinations and Related Policies on Other Exams and Final Term Papers/Projects	25	Human Services and Sociology, BA	848
Finance	185	Human Services and Sociology, BS	686
Financial Aid	17	Human Services and Sociology, BS	859
Food Systems Sustainability, Health, and Equity, Minor	578	Human Services, BA	669
French, Minor	746	Human Services, BA/MS	671
Game Art, Minor	86	Human Services, BS	678
Game Art, Minor	115	Human Services, BS/MS	681
Game Design	109	Human Services, Minor	688
Game Design, Minor	115	Industrial Engineering, BSIE	403
Games, BFA	110	Industrial Engineering, BSIE/ Energy Systems, MS	412
General Information	905	Industrial Engineering, BSIE/ Operations Research, MS	418
General Studies Program	44	Industrial Engineering, BSIE/Engineering Management, MS	415
Geology, Minor	511	Industrial Engineering, BSIE/MS	409
Global Experience	40	Industrial Engineering, Minor	432
Global Social Entrepreneurship, Minor	253	Information for Entering Students	15

Information Science	268	Latino/a, Latin American and Caribbean Studies, Minor	579
Information Science and Business Administration, BS	237	Law and Public Policy, Minor	579
Information Science and Business Administration, BS	325	Leaves of Absence and University Withdrawal	32
Information Science and Cognitive Psychology, BS	329	Linguistics	482
Information Science and Cognitive Psychology, BS	569	Linguistics and Cultural Anthropology, BS	487
Information Science and Environmental Science, BS	331	Linguistics and Cultural Anthropology, BS	860
Information Science and Environmental Science, BS	509	Linguistics and English, BA	490
Information Science and Journalism, BS	121	Linguistics and English, BA	642
Information Science and Journalism, BS	333	Linguistics and Psychology, BS	488
Information Science, BSIS	268	Linguistics and Psychology, BS	572
Information Science, Minor	270	Linguistics, BS	483
Interaction Design, Minor	87	Linguistics, Minor	493
Interdisciplinary	440	Living and Learning Communities	38
Interdisciplinary	575	Management	196
Interdisciplinary Minors	336	Management Information Systems	204
International Affairs	688	Marine and Environmental Sciences	493
International Affairs and Cultural Anthropology, BA	709	Marine Biology, BS	499
International Affairs and Cultural Anthropology, BA	849	Marine Biology, Minor	512
International Affairs and Economics, BA	612	Marine Studies, Minor	512
International Affairs and Economics, BA	712	Marketing	212
International Affairs and Religious Studies, BA	716	Materials Science and Engineering, Minor	337
International Affairs and Religious Studies, BA	760	Mathematics	513
International Affairs, BA	688	Mathematics and Business Administration, BS	240
International Affairs, Minor	731	Mathematics and Business Administration, BS	522
International Affairs with African Studies Concentration, BA	692	Mathematics and Physics, BS	525
International Affairs with Asian Studies Concentration, BA	694	Mathematics and Physics, BS	547
International Affairs with European Studies Concentration, BA	696	Mathematics, BA	514
International Affairs with Latin American Studies Concentration, BA	698	Mathematics, BS	515
International Affairs with Middle East Studies Concentration, BA	699	Mathematics, BS/MS	527
International Security Studies, Minor	836	Mathematics, Minor	528
Italian, Minor	746	Mechanical and Industrial Engineering	402
Japanese, Minor	747	Mechanical Engineering and Physics, BSME	408
Jewish Studies	734	Mechanical Engineering and Physics, BSME	556
Jewish Studies and Religion, BA	734	Mechanical Engineering, BS/ Engineering Management, MS	428
Jewish Studies and Religion, BA	777	Mechanical Engineering, BS/Energy Systems, MS	425
Jewish Studies, Minor	738	Mechanical Engineering, BS/MS	422
Journalism, BA	116	Mechanical Engineering, BSME	405
Journalism, Minor	123	Mechanical Engineering, Minor	432
Landscape Architecture, BLA	50	Media and Screen Studies	123
Languages, Literatures, and Cultures	739	Media and Screen Studies and English, BA	128
Languages, Literatures, and Cultures and International Affairs, BA	721	Media and Screen Studies and English, BA	645
Languages, Literatures, and Cultures and International Affairs, BA	740	Media and Screen Studies and Journalism, BA	120
		Media and Screen Studies and Journalism, BA	130

Media and Screen Studies and Philosophy, BA	131	NUpath Requirements	34
Media and Screen Studies and Philosophy, BA	764	Nursing, BSN	446
Media and Screen Studies and Political Science, BA	133	Nursing (BSN), Accelerated Program for Second-Degree Students	448
Media and Screen Studies and Political Science, BA	788	Oratory and Public Speaking, Minor	107
Media and Screen Studies and Sociology, BA	134	Orientation for International Students	15
Media and Screen Studies and Sociology, BA	852	Parent/Family Programs	15
Media and Screen Studies and Theatre, BA	135	Personal Information	31
Media and Screen Studies and Theatre, BA	160	Pharmaceutical Sciences, BS	450
Media and Screen Studies and Theatre, BS	136	Pharmacy, PharmD	453
Media and Screen Studies and Theatre, BS	164	Pharmacy Studies, BS	451
Media and Screen Studies, BA	123	Philosophy, BA	749
Media and Screen Studies, Minor	138	Philosophy and Religion	748
Media Arts and Communication Studies, BA	60	Philosophy, BA/JD	780
Media Arts and Communication Studies, BA	100	Philosophy, BS	767
Media Arts, BFA	64	Philosophy, BS/JD	780
Media Arts with Concentration in Animation, BFA	66	Philosophy, Minor	780
Media Arts with Concentration in Photography, BFA	68	Photography, Minor	87
Media Arts with Concentration in Video Arts, BFA	70	Physical Therapy, DPT	443
Media Production, Minor	107	Physical Therapy, Movement, and Rehabilitation Sciences	440
Merit Scholarships	13	Physics	529
Middle East Studies, Minor	733	Physics and Music with Concentration in Music Composition and Technology, BS	150
Minors	252	Physics and Music with Concentration in Music Composition and Technology, BS	548
Music	138	Physics and Philosophy, BS	549
Music and Communication Studies With Concentration in Music Industry, BS	101	Physics and Philosophy, BS	773
Music and Communication Studies with Concentration in Music Industry, BS	149	Physics, BS	530
Music, BA	140	Physics, BS/MS	558
Music Composition, Minor	152	Physics, BS/PhD	560
Music Industry, Minor	152	Physics, Minor	560
Music, Minor	151	Political Communication, Minor	108
Music Performance, Minor	152	Political Science	782
Music Recording, Minor	153	Political Science and Business Administration, BS	243
Music with Concentration in Music Composition and Technology, BS	142	Political Science and Business Administration, BS	810
Music with Concentration in Music Industry, BS	144	Political Science and Communication Studies, BA	103
Musical Theatre, Minor	154	Political Science and Communication Studies, BA	790
Musical Theatre, Minor	167	Political Science and Communication Studies, BS	105
NEC/NU Joint Certificate Program—General Certificate of Merit in Music Performance	154	Political Science and Communication Studies, BS	813
NEC/NU Joint Certificate Program—Professional Studies Certificate in Music Performance	155	Political Science and Economics, BA	616
Northeastern Explore Program	41	Political Science and Economics, BA	792
NUpath	34	Political Science and Economics, BS	619
NUpath Learning Goals	35	Political Science and Economics, BS	815
		Political Science and International Affairs, BA	725

Political Science and International Affairs, BA	794	Sociology and Anthropology	836
Political Science and Philosophy, BA	766	Sociology and Cultural Anthropology, BA	840
Political Science and Philosophy, BA	799	Sociology and Cultural Anthropology, BS	858
Political Science and Philosophy, BS	775	Sociology and Political Science, BA	801
Political Science and Philosophy, BS	817	Sociology and Political Science, BA	853
Political Science, BA	782	Sociology, BA	837
Political Science, BA/JD	827	Sociology, BA/MA	862
Political Science, BA/MA	819	Sociology, BS	855
Political Science, BA/MPA	821	Sociology, BS/MA	863
Political Science, BA/Security and Resilience Studies, MS	823	Sociology, Minor	864
Political Science, BS	803	Songwriting, Minor	154
Political Science, BS/JD	835	Spanish, BA	739
Political Science, BS/MA	827	Spanish, Minor	748
Political Science, BS/MPA	829	Specialized Entry Programs	12
Political Science, BS/Security and Resilience Studies, MS	832	Speech-Language Pathology and Audiology, Minor	436
Political Science, Minor	835	Statements of Accreditation	903
Politics, Philosophy, and Economics, BS	575	Student Evaluation of Courses (TRACE)	23
Portuguese, Minor	747	Student Orientation	15
Prelaw Preparation	42	Student Right-to-Know Act	32
Premedical and Other Preprofessional Health Career Preparation	42	Student/Parent Loans	17
Professional Presentation, Minor	108	Studio Art, BFA	72
Professional Presentation, Minor	167	Supply Chain Management	220
Psychology	560	Sustainable Business Practices, Minor	254
Psychology, BS	561	Sustainable Energy Systems, Minor	337
Psychology, Minor	574	Teaching, MAT PlusOne Program	43
Registration and Taking Courses	23	Theatre	157
Rehabilitation Studies, BS	442	Theatre, BA	158
Religious Studies, BA	755	Theatre, BS	161
Religious Studies, Minor	780	Theatre, Minor	166
Research and Creative Activity	39	Tuition, Room, Board, and Fees Per Semester	19
Residential Life	15	Undergraduate Degrees	44
Resources	905	University Academics	34
Rhetoric, Minor	108	University Faculty	865
Rhetoric, Minor	652	University Honors Program	12
Russian, Minor	748	University Honors Program	41
School of Architecture	46	University Scholars Program	41
School of Criminology and Criminal Justice	594	University-Wide Requirements	38
School of Journalism	116	Urban Landscape Studies, Minor	52
School of Nursing	445	Urban Studies, Minor	580
School of Pharmacy	448	Video Arts, Minor	88
Service-Learning	40	We Care	16
Social Activism, Minor	108		

Women's, Gender, and Sexuality Studies, Minor	581
World Languages Center	41
Writing, Minor	652
Writing-Intensive Courses	37