In the BS, combined biology and English degree program, science courses lay the groundwork for strong basic training in mathematics, chemistry, and physics that are relevant to biology. In biology courses, students broadly explore the organization and processes of life—from molecules and cells through organs and organ systems to populations, ecosystems, and evolution. In English courses, students study the diverse historical, cultural, and aesthetic contexts of English, American, and other Anglophone literatures; analyze writing practices and related media; and practice a variety of approaches to the study of language, rhetoric, writing, and literature. The fields of biology and English are bridged with course work in different forms of science writing, as well as psychology and sociology courses exploring the acquisition of language and reading; the sociology of health and illness; and the environment, technology, and society.

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

University-Wide Requirements
All undergraduate students are required to complete the University-Wide Requirements (http://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements).

NUpath Requirements
All undergraduate students are required to complete the NUpath Requirements (http://catalog.northeastern.edu/undergraduate/university-academics/nupath).

Biology Requirements

Introduction to College
BIOL 1000 Biology at Northeastern 1
or ENGL 1000 English at Northeastern

Experiential Learning Introduction
EESC 2000 Professional Development for Co-op 1

Required Biology

Foundations
BIOL 1107 Foundations of Biology 5
and BIOL 1108 and Lab for BIOL 1107

Inquiries
BIOL 2299 Inquiries in Biological Sciences 4

Genetics
BIOL 2301 Genetics and Molecular Biology 5
and BIOL 2302 and Lab for BIOL 2301

Techniques
BIOL 2309 Biology Project Lab 4

Biochemistry
BIOL 3611 Biochemistry 5
and BIOL 3612 and Lab for BIOL 3611

Biology Elective
Organismal and Population Biology
Complete one of the following: 4-5

| BIOL 2321 | Microbiology and Lab for BIOL 2321 5 |
| BIOL 2322 | Human Parasitology 4 |
| EEMB 2302 | Ecology and Lab for EEMB 2302 5 |
| EEMB 2400 | Introduction to Evolution 4 |
| EEMB 2616 | Invertebrate Zoology and Lab for EEMB 2616 5 |
| EEMB 2618 | Vertebrate Zoology and Lab for EEMB 2618 5 |
| EEMB 2700 | Marine Biology and Lab for EEMB 2700 5 |

Supporting Courses for Biology

Mathematics
MATH 1251 Calculus and Differential Equations for Biology 1 4

Statistics
ENVR 2500 Biostatistics and Lab for ENVR 2500 5

Chemistry

General Chemistry
CHEM 1211 General Chemistry 1 and Lab for CHEM 1211 5
and CHEM 1212

CHEM 1214 General Chemistry 2 and Lab for CHEM 1214 5
and CHEM 1215

Organic Chemistry
CHEM 2311 Organic Chemistry 1 and Lab for CHEM 2311 5
and CHEM 2312

CHEM 2313 Organic Chemistry 2 and Lab for CHEM 2313 5
and CHEM 2314

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 Lab for PHYS 1145 |
| PHYS 1146 | | |

| PHYS 1151 | Physics for Engineering 1 and Lab for PHYS 1151 |
| PHYS 1152 | and Interactive Learning Seminar for PHYS 1151 |
| PHYS 1153 | |

| PHYS 1161 | Physics 1 and Lab for PHYS 1161 |
| PHYS 1162 | |

Physics 2
Complete one of the following lecture/lab pairs. PHYS 1147/PHYS 1148 is recommended: 5

| PHYS 1147 | Physics for Life Sciences 2 and Lab for PHYS 1147 |
| PHYS 1148 | | |

| PHYS 1155 | Physics for Engineering 2 and Lab for PHYS 1155 |
| PHYS 1156 | and Interactive Learning Seminar for PHYS 1155 |
| PHYS 1157 | |
English Requirements

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 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:
ENGL 2296 Early African-American Literature
ENGL 2360 Modern African-American Literature
ENGL 2450 Postcolonial Literature
ENGL 2455 American Women Writers
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 2560 Writing in Global Contexts
ENGL/JWSS 2685 From Kafka to Kushner: Modern and Contemporary Jewish Literature

Pre-Nineteenth-Century Literature
Complete one of the following:
ENGL 1600 Introduction to Shakespeare
ENGL 1700 Global Literature to 1500
ENGL 2200 The Bible
ENGL 2210 Medieval British Literature
ENGL 2215 Shakespeare’s Comedies
ENGL 2216 Shakespeare’s Tragedies
ENGL 2230 16th-Century British Literature
ENGL 2240 17th-Century British Literature
ENGL 2250 18th-Century British Literature
ENGL 2295 Revolution and Revolt in Early American Literature
ENGL 2296 Early African-American Literature
ENGL 3150 Topics in Early Literatures Abroad
ENGL 3605 Medieval Romance and Modern Readers
ENGL 3607 Chaucer
ENGL 3618 Milton
ENGL/JWSS 3678 Bedchambers and Battlefields: Hebrew Bible and the Origins of Sex, Gender, and Ethnicity
ENGL 4000 Topics in Early Literatures
ENGL 4010 Topics in Shakespeare
ENGL 4020 Topics in 17th- and 18th-Century Literatures

Nineteenth-Century Literature
Complete one of the following:
ENGL 2260 Romantic Poetry
ENGL 2270 Victorian Literature
ENGL 2280 19th-Century British Fiction
ENGL 2320 19th-Century American Novels
ENGL 2330 The American Renaissance
ENGL 2340 American Realism
ENGL 3619 Emerson and Thoreau
ENGL 3720 19th-Century Major Figure
ENGL 4040 Topics in 19th-Century Literatures

Twentieth- and Twenty-First-Century Literature
Complete one of the following:
ENGL 2290 20th-Century British Literature
ENGL 2291 Major 20th-Century British Novelists
ENGL 2321 20th- and 21st-Century American Novels
ENGL 2355 Modern American Literature
ENGL 2360 Modern African-American Literature
ENGL 2410 Contemporary American Literature
ENGL 2440 The Modern Bestseller
ENGL 2560 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 20th- and 21st-Century Major Figure
ENGL 4060 Topics in 20th- and 21st-Century Literatures
ENGL 4080 Topics in Film

Theories and Methods
Complete one of the following:
ENGL 1140 Grammar: The Architecture of English
ENGL 1160 Introduction to Rhetoric
ENGL 1410 Introduction to Writing Studies
ENGL 1800 Narrative Medicine
ENGL 2830 Literary Theory
ENGL 2850 Writing for Social Media: Theory and Practice
ENGL 3325 Rhetoric of Law
ENGL 3340 Technologies of Text
ENGL 3381 The Practice and Theory of Teaching Writing
ENGL 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:
ENGL 1120 Trouble in Utopia
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1130</td>
<td>Animals, Objects, Humans</td>
</tr>
<tr>
<td>ENGL 1450</td>
<td>Reading and Writing in the Digital Age</td>
</tr>
<tr>
<td>ENGL 1500</td>
<td>British Literature to 1800</td>
</tr>
<tr>
<td>ENGL 1501</td>
<td>British Literature 1800 to Present</td>
</tr>
<tr>
<td>ENGL 1502</td>
<td>American Literature to 1865</td>
</tr>
<tr>
<td>ENGL 1503</td>
<td>American Literature 1865 to Present</td>
</tr>
<tr>
<td>ENGL 1701</td>
<td>Global Literature 1500 to Present</td>
</tr>
<tr>
<td>ENGL 2370</td>
<td>The Modern Short Story</td>
</tr>
<tr>
<td>ENGL 2380</td>
<td>The Modern Novel</td>
</tr>
<tr>
<td>ENGL 2400</td>
<td>Modern Poetry</td>
</tr>
<tr>
<td>ENGL 2420</td>
<td>Contemporary Poetry</td>
</tr>
<tr>
<td>ENGL 2430</td>
<td>Contemporary Fiction</td>
</tr>
<tr>
<td>ENGL 2450</td>
<td>Postcolonial Literature</td>
</tr>
<tr>
<td>ENGL 2455</td>
<td>American Women Writers</td>
</tr>
<tr>
<td>ENGL 2460</td>
<td>Multiethnic Literatures of the U.S.</td>
</tr>
<tr>
<td>ENGL 2470</td>
<td>Asian-American Literature</td>
</tr>
<tr>
<td>ENGL 2480</td>
<td>U.S. Latino/a Literature</td>
</tr>
<tr>
<td>ENGL 2490</td>
<td>Native American Literature</td>
</tr>
<tr>
<td>ENGL 2510</td>
<td>Horror Fiction</td>
</tr>
<tr>
<td>ENGL 2520</td>
<td>Science Fiction</td>
</tr>
<tr>
<td>ENGL 2620</td>
<td>What Is Nature? (Abroad)</td>
</tr>
<tr>
<td>ENGL 3427</td>
<td>The Literature of Science</td>
</tr>
<tr>
<td>ENGL 3487</td>
<td>Film and Text Abroad</td>
</tr>
<tr>
<td>ENGL 3488</td>
<td>Film and Text</td>
</tr>
<tr>
<td>ENGL 3572</td>
<td>Fantasy</td>
</tr>
<tr>
<td>ENGL 3582</td>
<td>Children's Literature</td>
</tr>
<tr>
<td>ENGL 3589</td>
<td>Psychology and Literature</td>
</tr>
<tr>
<td>ENGL 3633</td>
<td>The African-American Novel</td>
</tr>
<tr>
<td>ENGL 3676</td>
<td>Representing Gender and Sexuality in Literature</td>
</tr>
<tr>
<td>ENGL 3690</td>
<td>The City in Literature</td>
</tr>
<tr>
<td>ENGL 4070</td>
<td>Topics in Genre</td>
</tr>
<tr>
<td>ENGL 4684</td>
<td>Topics in Postcolonial Literature</td>
</tr>
<tr>
<td>ENGL 4688</td>
<td>Topics in Comparative Textual Studies</td>
</tr>
</tbody>
</table>

### Writing

Complete one of the following: 4

- ENGL 2700 Creative Writing
- ENGL 2210 Medieval British Literature
- ENGL 2730 Digital Writing
- ENGL 2740 Writing and Community Engagement
- ENGL 2760 Writing in Global Contexts
- ENGL 2770 Writing to Heal
- ENGL 2780 Visual Writing: Writing Visuals
- ENGL 3370 Writing Cultures
- ENGL 3375 Writing Boston
- ENGL 3376 Creative Nonfiction
- ENGL 3377 Poetry Workshop
- ENGL 3378 Fiction Workshop
- ENGL 3379 Nonfiction Workshop
- ENGL 3380 Topics in Writing
- ENGL 3382 Publishing in the 21st Century
- ENGL 3384 The Writer’s Marketplace

### English Electives

Complete additional ENGL electives to reach a total of 10 ENGL courses.

#### Capstone

- ENGL 4710 Capstone Seminar
- or ENGL 4720 Capstone Project

#### Integrative Courses

**Integrative English Course**

Complete one of the following: 4

- ENGL 2770 Writing to Heal
- ENGL 3340 Technologies of Text
- ENGL 3427 The Literature of Science

**Integrative General Biological Sciences Course**

Complete one of the following: 4

- PSYC 3464 Psychology of Language
- PSYC 4520 Language and the Brain
- 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:

#### Biology Capstone

- BIOL 4701 Biology Capstone 4

#### English Capstone

- ENGL 4710 Capstone Seminar
- or ENGL 4720 Capstone Project 4

### 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