Provides a BS degree in chemical engineering. Upon completion, one can move in several career directions. Traditionally, the degree prepares one for practice in the engineering and the control of processes involving chemicals, biotechnology feedstocks, and pharmaceuticals. The degree can also serve as a springboard to advance study in chemical engineering. Nontraditional postgraduate pathways include obtaining a law school degree related to patent law, an MBA, or a medical degree for a career in the health professions.

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

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

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements with general electives.

**Engineering**
Complete 54 semester hours in engineering as indicated below:

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<td>Conservation Principles in Chemical Engineering</td>
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<td>Transport Processes 1</td>
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<td>Chemical Engineering Thermodynamics 1</td>
<td>4</td>
</tr>
<tr>
<td>CHME 3312</td>
<td>Transport Processes 2 and Separations</td>
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<td>Chemical Engineering Experimental Design 1 (Chem Eng Lab 1)</td>
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<td>CHME 3322</td>
<td>Chemical Engineering Thermodynamics 2</td>
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<td>CHME 4315</td>
<td>Chemical Engineering Experimental Design 2 (Chem Eng Lab 2)</td>
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<td>CHME 4510</td>
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<td>CHME 4512</td>
<td>Chemical Engineering Process Control</td>
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</tr>
<tr>
<td>CHME 4701</td>
<td>Capstone Design 1: Process Analysis</td>
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<tr>
<td>CHME 4703</td>
<td>Capstone Design 2: Chemical Process Design</td>
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**Advanced Engineering Elective**
Complete one course numbered between 4000 and 5999 in any of the following subject areas:
- BIOE, CHME, CIVE, EECE, ME, MEIE, and ENGR

**Professional Development**
Complete 4 semester hours in professional development as indicated below:

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<tr>
<td>GE 1502</td>
<td>Cornerstone of Engineering 2</td>
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**Supporting Courses: Mathematics/Science**
Complete 30 semester hours in mathematics and science as indicated below:

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<td>Calculus 1 for Science and Engineering</td>
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<td>MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
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<td>Differential Equations and Linear Algebra for Engineering</td>
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<td>Physics for Engineering 2 and Lab for PHYS 1152</td>
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<tr>
<td>PHYS 1153</td>
<td>and Interactive Learning Seminar for PHYS 1151</td>
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Complete one of the following:
- BIOL 1111 General Biology 1
- BIOL 1115 General Biology 1 for Engineers
- PHYS 1155 Physics for Engineering 2 and Lab for PHYS 1155
- PHYS 1157 and Interactive Learning Seminar for PHYS 1155

**Supporting Courses: Advanced Science**
Complete 14 semester hours in advanced science as indicated below.

**Supplemental Credit**
1 semester hour from the following course counts toward the mathematics/science requirement:
- GE 1502 Cornerstone of Engineering 2
Complete one of the following:

- CHEM 2311 and CHEM 2312 and CHEM 2319
- CHEM 2315 and CHEM 2316 and CHEM 2324

Organic Chemistry 1 and Lab for CHEM 2311 and Recitation for CHEM 2311

Complete one of the following:

- CHEM 2313 and CHEM 2314 and CHEM 2320
- CHEM 2317 and CHEM 2318 and CHEM 2325

Organic Chemistry 1 for Chemistry Majors and Lab for CHEM 2315 and Recitation for CHEM 2315

Complete one of the following:

- CHEM 2313 and CHEM 2314 and CHEM 2320
- CHEM 2317 and CHEM 2318 and CHEM 2325

Organic Chemistry 2 and Lab for CHEM 2317 and Recitation for CHEM 2317

Complete one of the following:

- BIOL 2301 and BIOL 2302
- BIOL 2321 and BIOL 2322
- BIOL 2327
- BIOL 3611 and BIOL 3612
- BIOL 3603
- EEMB 2302 and EEMB 2303
- CHEM 2331 and CHEM 2332
- CHEM 3403 and CHEM 3404
- CHEM 3501
- CHEM 4621 and CHEM 4622
- CHEM 4628 and CHEM 4629
- PHYS 2303
- PHYS 3601

Genetics and Molecular Biology and Lab for BIOL 2301
Microbiology and Lab for BIOL 2321
Human Parasitology
Biochemistry and Lab for BIOL 3611
Mammalian Systems Physiology
Ecology and Lab for EEMB 2302
Bioanalytical Chemistry and Lab for CHEM 2331
Quantum Chemistry and Spectroscopy and Lab for CHEM 3403
Inorganic Chemistry
Introduction to Chemical Biology and Lab for CHEM 4621
Introduction to Spectroscopy of Organic Compounds and Identification of Organic Compounds
Modern Physics
Classical Dynamics

Writing Requirements

A grade of C or higher is required:

- ENGW 1111 First-Year Writing
- ENGW 3302 Advanced Writing in the Technical Professions
- or ENGW 3315 Interdisciplinary Advanced Writing in the Disciplines

Required General Electives

Complete six academic, nonremedial, nonrepetitive courses, each equivalent to 4 semester hours.

Major GPA Requirement

2.000 minimum required in CHME courses

Course Work That Does Not Count Toward the Engineering Degree

Students in engineering are allowed to count a maximum of two pass/fail courses toward their degree program. Only general electives outside the College of Engineering may be taken on a pass/fail grading basis. A maximum of one pass/fail course is allowed per semester.

Program Requirement

134 total semester hours required

Plan of Study

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

Year 1

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<th>Fall</th>
<th>Hours</th>
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Year 3

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### Chemical Engineering, BSCHE

#### Year 4

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Total Hours: 17-16

**Four Years, Two Co-ops in Summer 2/Fall**

#### Year 1

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Year 2

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Year 3

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Total Hours: 134-135

**Five Years, Three Co-ops in Summer 2/Fall**

#### Year 1

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Year 2

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Year 3

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Total Hours: 134-135
### Year 1
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<th>Summer 1</th>
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### Year 5
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### Total Hours: 134-135

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

**Year 1**

**Year 2**

**Year 3**

**Year 4**

**Year 5**

**Total Hours: 134-135**