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.

**Universitywide Requirements**

All undergraduate students are required to complete the Universitywide 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

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>EECE 2140</td>
<td>Computing Fundamentals for Engineers</td>
<td>4</td>
</tr>
<tr>
<td>EECE 2150</td>
<td>Circuits and Signals: Biomedical Applications</td>
<td>5</td>
</tr>
<tr>
<td>EECE 2160</td>
<td>Embedded Design: Enabling Robotics</td>
<td>4</td>
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</table>

#### Required Courses

**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 2540: Fundamentals of Networks | 4

EECE 2560: Fundamentals of Engineering Algorithms | 4

**Electrical and Computer Engineering Capstone Courses**

EECE 4791: Electrical and Computer Engineering Capstone 1 | 1

EECE 4792: Electrical and Computer Engineering Capstone 2 | 4

### EECE Technical Electives

Students can register for EECE4991/EECE4992/EECE4993 more than once. For these courses combined, a maximum of 8SH will be allowed to satisfy the requirement of technical electives. An additional 4SH will be allowed as a general elective. At most one of these courses (4SH) can be taken in a semester.

Though students may register for EECE 2750 more than once, only 4SH will be allowed to satisfy the requirements of technical electives. An additional 4SH will be allowed as a general elective.

Complete four of the following: 16

EECE 2750: Enabling Engineering
EECE 3324 to EECE 3410
EECE 4512 to EECE 4698
EECE 4991: Research
EECE 4992: Directed Study
EECE 4993: Independent Study
EECE 5115 to EECE 5698
ENGR 5670: Sustainable Energy: Materials, Conversion, Storage, and Usage

Two CS/CY/IS courses from the following approved list may be taken toward the EECE technical elective requirement.

CS 3200: Database Design
CS 3500: Object-Oriented Design
CS 3540 to CS 3800
CS 4100 to CS 4770
CS 4850: Building Game Engines
CY 2550: Foundations of Cybersecurity

#### Supplemental Credit

2 semester hours from the following course count toward the engineering requirement: 2

EECE 3468: Noise and Stochastic Processes

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

### Supporting Courses: Mathematics/Science

Complete all Mathematics/Science courses with a minimum of 30 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
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<td>General Chemistry for Engineers</td>
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<td>CHEM 1153</td>
<td>General Chemistry for Engineers and Recitation for CHEM 1151</td>
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</tr>
<tr>
<td>CS 1800</td>
<td>Discrete Structures and Seminar for CS 1800</td>
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<tr>
<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
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<tr>
<td>MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
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<td>Title</td>
<td>Hours</td>
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<tr>
<td>MATH 2321</td>
<td>Calculus 3 for Science and Engineering</td>
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<td>MATH 2341</td>
<td>Differential Equations and Linear Algebra for Engineering</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1151 and PHYS 1152 and PHYS 1153</td>
<td>Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151</td>
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<tr>
<td>PHYS 1155 and PHYS 1156 and PHYS 1157</td>
<td>Physics for Engineering 2 and Lab for PHYS 1155 and Interactive Learning Seminar for PHYS 1155</td>
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### Supplemental Credit
2 semester hours from the following course count toward the mathematics/science requirement:
- EECE 3468 Noise and Stochastic Processes

1 semester hour from the following course counts toward the mathematics/science requirement:
- GE 1501 Cornerstone of Engineering 1

### Professional Development

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<tr>
<th>Code</th>
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<tr>
<td>GE 1000</td>
<td>First-Year Seminar</td>
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<td>ENCP 2000</td>
<td>Introduction to Engineering Co-op Education</td>
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<tr>
<td>ENCP 3000</td>
<td>Professional Issues in Engineering</td>
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</table>

| Additional Required Courses |
| 1 semester hour from the following course counts toward the professional development requirement: |
| GE 1501 Cornerstone of Engineering 1 |
| 1 semester hour from the following course counts toward the professional development requirement: |
| GE 1502 Cornerstone of Engineering 2 |

### Writing Requirements

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<td>ENGW 1111</td>
<td>First-Year Writing</td>
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<tr>
<td>ENGW 3302</td>
<td>Advanced Writing in the Technical Professions</td>
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<tr>
<td>or ENGW 3315</td>
<td>Interdisciplinary Advanced Writing in the Disciplines</td>
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### Required General Electives

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<td>Complete 16 SH of academic, nonremedial, nonrepetitive courses.</td>
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### Program Requirement

135 total semester hours required

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### Plan of Study

#### Four Years, One Co-op in Summer 2/Fall

#### Year 1

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<th>Hours</th>
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<th>Hours</th>
<th>Summer 1</th>
<th>Hours</th>
<th>Summer 2</th>
<th>Hours</th>
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<td>CHEM 1151 (ND)</td>
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<td>GE 1502 (ER)</td>
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<td>MATH 2341</td>
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#### Year 2

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<th>Hours</th>
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#### Year 3

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<th>Hours</th>
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#### Year 4

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<td>ECE 4792 (EI, WI, CE)</td>
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1 Students can substitute GE 1110 and GE 1111 for GE 1501 and 1502 in approved situations.
### Five Years, Three Co-ops in Summer 2/Fall

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<th>Year 1 Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer 1</th>
<th>Hours</th>
<th>Summer 2</th>
<th>Hours</th>
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<td>GE 1502 (ER)</td>
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<tr>
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<tbody>
<tr>
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**Total Hours: 135**

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

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<th>Hours</th>
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<tbody>
<tr>
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<th>Summer 1</th>
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**Total Hours: 135**
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<th>Hours</th>
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- **Total Hours:** 19
- **Summer 1 Hours:** 0
- **Summer 2 Hours:** 0
- **Fall Hours:** 19
- **Spring Hours:** 5

### Year 5

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- **Total Hours:** 17
- **Summer 1 Hours:** 16

### Notes

- Computing Fundamentals for Engineers (EECE 2140) can be taken in Year 1 Spring instead of a General Elective by students who are interested in the course in preparation for co-ops involving programming and computing hardware.
- The capstone design courses are taken as follows: Electrical and Computer Engineering Capstone 1 (EECE 4791) in Summer 1 and Electrical and Computer Engineering Capstone 2 (EECE 4792) in Spring or Electrical and Computer Engineering Capstone 1 (EECE 4791) in Summer 2 and Electrical and Computer Engineering Capstone 2 (EECE 4792) in Fall.