This intercollege dual major serves students who are interested in both computer hardware and software, combining an accredited Bachelor of Science degree in engineering with the added benefits of depth in software principles found in a Bachelor of Science degree in computer science. This program provides a well-rounded computing education that includes engineering design principles, computational thinking, proper program design, and a solid background in mathematics and science. The degree is fully accredited as a Bachelor of Science in Computer Engineering and adds the computer science depth.

Because of the large body of shared knowledge between computer engineering and computer science, an integrated dual major between these two disciplines is a logical course of study and can be accomplished within a student’s usual five-year program (including three co-op placements) without requiring course overloading in any semester. A student graduating from this program will have a solid foundation in both computer hardware and software principles, and should be prepared for a wide range of career paths in the computing field or any related field that relies on the application of engineering or computing principles.

Students interested in this program should contact the Department of Electrical and Computer Engineering or the Department of Computer and Information Science as early as possible, preferably prior to registering for freshman courses.

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

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

Major GPA Requirement
2.00 minimum GPA in EECE courses

Engineering
Complete 48 semester hours in engineering as indicated below.

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<td>Embedded Design: Enabling Robotics</td>
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<td>Computer Engineering Fundamentals</td>
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<td>EECE 2322 and EECE 2323</td>
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Computer Science Requirements

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<td>EECE 2530 and EECE 2531</td>
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<td>ENGR 5670</td>
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<td>and CS 2501</td>
<td>and Lab for CS 2500</td>
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</table>
Computer Engineering and Computer Science, BSCompE

Computer Engineering and Computer Science, BSCompE

CS 2510 and CS 2511 Fundamentals of Computer Science and Lab for CS 2510 5
CS 2800 and CS 2801 Logic and Computation and Lab for CS 2800 5

Computer Science Upper-Level Courses

CS 3500 Object-Oriented Design 4
CS 3650 Computer Systems 4
CS 4500 Software Development and Recitation for CS 4500 4

Professional Development

Code Title Hours
GE 1000 Introduction to the Study of Engineering 1
EECE 2000 Introduction to Engineering Co-op Education 1
EECE 3000 Professional Issues in Engineering 1

Additional Required Courses

The remaining credit from the following course will apply to the professional development area:

GE 1501 Cornerstone of Engineering 1

Integrative Courses

The following courses are taken in the major and count toward the integrative requirement:

Code Title Hours
MATH 1341 Calculus 1 for Science and Engineering 4
MATH 1342 Calculus 2 for Science and Engineering 4
MATH 3081 Probability and Statistics 4
CS 1800 Discrete Structures 4
PHYS 1151 and PHYS 1152 Physics for Engineering 1 and Lab for PHYS 1151 4
EECE 4790 Electrical and Computer Engineering Capstone 1 4
EECE 4792 Electrical and Computer Engineering Capstone 2 4

Supporting Courses: Mathematics/Science

Complete 35 semester hours in mathematics and science as indicated below.

Code Title Hours
CHEM 1151 and CHEM 1153 General Chemistry for Engineers and Recitation for CHEM 1151 4
CS 1800 and CS 1802 Discrete Structures and Seminar for CS 1800 5
MATH 1341 Calculus 1 for Science and Engineering 4
MATH 1342 Calculus 2 for Science and Engineering 4
MATH 2341 Differential Equations and Linear Algebra for Engineering 4
MATH 3081 Probability and Statistics 4
PHYS 1151 and PHYS 1152 and PHYS 1153 Physics for Engineering 1 and Lab for PHYS 1151 and Interactive Learning Seminar for PHYS 1151 5

PHYS 1155 and PHYS 1156 and PHYS 1157 and PHYS 1155 and Interactive Learning Seminar for PHYS 1155

Supplemental Credit

1 semester hour from the following course counts toward the mathematics/science requirement:

GE 1502 Cornerstone of Engineering 2

Writing Requirements and NUpath Courses

Code Title Hours
Writing A grade of C or higher is required:
ENGW 1111 First-Year Writing 4
ENGW 3302 Advanced Writing in the Technical Professions 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

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<th>Fall</th>
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**Five Years, Three Co-ops in Spring/Summer 1**

**Year 1**

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**Year 3**

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**Year 4**

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