Throughout the world, environmental engineers play a key role in defining the future of sustainable cities and communities. Creating innovations and designing systems that ensure clean and healthy environments are some of the greatest collective challenges of our time. Revolutionary strategies and designs are needed to create symbiosis between our natural and manmade environments.

Using new and advanced technologies, environmental engineers must address the world’s growing challenges, including engineering sustainable strategies coupled with the development of devices and tools to better predict and address environmental needs to provide clean environments and planning green infrastructure in conjunction with the natural environment for a changing planet.

With a solid foundation in engineering, chemical, biological, and ecological principles, Northeastern’s environmental engineering students learn how to tackle interconnected challenges as they relate to water, energy, air quality, and related fields. Understanding these complex interactions, particularly as they impact our built and natural environments, is embodied in our program through a holistic educational approach.

Program Requirements
Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, 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-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>
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<th>Hours</th>
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<tr>
<td>CIVE 2221</td>
<td>Statics and Solid Mechanics and Recitation for CIVE 2221</td>
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<tr>
<td>CIVE 2222</td>
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<tr>
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<td>Materials for the Built Environment and Lab for CIVE 2260</td>
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<tr>
<td>CIVE 2261</td>
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<td>CIVE 2331</td>
<td>Fluid Mechanics and Hydraulics</td>
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<tr>
<td>CIVE 2334</td>
<td>Environmental Engineering: Principles, Technology, and Sustainability</td>
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<tr>
<td>CIVE 3435</td>
<td>Environmental Pollution Fate and Transport</td>
<td>4</td>
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<tr>
<td>CIVE 4534</td>
<td>Water Treatment Systems Design and Lab for CIVE 4534</td>
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<tr>
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<tr>
<td>CIVE 4765</td>
<td>Senior Design Project—Environmental</td>
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<td>CIVE 5300 and CIVE 5301</td>
<td>Environmental Sampling and Analysis and Lab for CIVE 5300</td>
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<tr>
<td>GE 3300</td>
<td>Energy Systems: Science, Technology, and Sustainability</td>
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Environmental Engineering Technical Electives
Complete 11-12 semester hours from the following:

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<td>CIVE 4540</td>
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<td>CIVE 4566</td>
<td>Design for Sustainable Transportation: Netherlands</td>
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<td>CIVE 4575</td>
<td>Construction Management</td>
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<td>CIVE 4777</td>
<td>Climate Hazards and Resilient Cities Abroad</td>
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<td>CIVE 5260</td>
<td>Environmental Fluid Mechanics</td>
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<td>CIVE 5261</td>
<td>Dynamic Modeling for Environmental Investment and Policymaking</td>
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<td>CIVE 5271</td>
<td>Solid and Hazardous Waste Management</td>
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<tr>
<td>CIVE 5275</td>
<td>Life Cycle Assessment of Materials, Products, and Infrastructure</td>
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<td>CIVE 5280</td>
<td>Remote Sensing of the Environment</td>
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<td>CIVE 5281</td>
<td>Coastal Dynamics and Design</td>
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<td>CIVE 5363</td>
<td>Climate Science, Engineering Adaptation, and Policy</td>
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<tr>
<td>CIVE 5536</td>
<td>Hydrologic and Hydraulic Design</td>
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Supplemental Credit
1 semester hour from the following course counts toward the engineering requirement:

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

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<td>CIVE 2335</td>
<td>Environmental Engineering Chemistry</td>
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2 semester hours from the following course count toward the engineering requirement:

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<tr>
<td>GE 1502</td>
<td>Cornerstone of Engineering 2 ¹</td>
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Supporting Courses: Mathematics/Science
Complete all Mathematics/Science courses with a minimum of 30 semester hours.

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<th>Hours</th>
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<tbody>
<tr>
<td>CHEM 1151 and CHEM 1153</td>
<td>General Chemistry for Engineers and Recitation for CHEM 1151</td>
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<tr>
<td>MATH 1341</td>
<td>Calculus 1 for Science and Engineering</td>
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<tr>
<td>Code</td>
<td>Title</td>
<td>Hours</td>
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<tr>
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<tr>
<td>MATH 1342</td>
<td>Calculus 2 for Science and Engineering</td>
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<tr>
<td>MATH 2321</td>
<td>Calculus 3 for Science and Engineering</td>
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</tr>
<tr>
<td>MATH 2341</td>
<td>Differential Equations and Linear Algebra for Engineering</td>
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<tr>
<td>PHYS 1151</td>
<td>Physics for Engineering</td>
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<tr>
<td>PHYS 1152</td>
<td>and Lab for PHYS 1151</td>
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<tr>
<td>PHYS 1153</td>
<td>and Interactive Learning Seminar for PHYS 1151</td>
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<tr>
<td>Science Elective (Earth)</td>
<td>Complete one of the following:</td>
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<tr>
<td>ENVR 1120</td>
<td>Oceans and Coasts</td>
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</tr>
<tr>
<td>ENVR 1200</td>
<td>Dynamic Earth</td>
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<tr>
<td>ENVR 2200</td>
<td>Earth's Changing Cycles</td>
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<td>ENVR 3125</td>
<td>Global Oceanic Change</td>
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<td>ENVR 3200</td>
<td>Water Resources</td>
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<td>ENVR 3600</td>
<td>Oceanography</td>
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<td>ENVR 5201</td>
<td>Geologic Field Seminar</td>
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<tr>
<td>Supplemental Credit</td>
<td>3 semester hours from the following course count toward the mathematics/science requirement:</td>
<td>3</td>
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<tr>
<td>CIVE 3464</td>
<td>Probability and Engineering Economy for Civil Engineering</td>
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</tr>
<tr>
<td>1 semester hour from the following course counts toward the mathematics/science requirement:</td>
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</tr>
<tr>
<td>CIVE 2335</td>
<td>Environmental Engineering Chemistry</td>
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</tr>
<tr>
<td>1 semester hour from the following course counts toward the mathematics/science requirement:</td>
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<tr>
<td>CIVE 3430</td>
<td>Engineering Microbiology and Ecology</td>
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<td>1 semester hour from the following course counts toward the mathematics/science requirement:</td>
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<td>GE 1501</td>
<td>Cornerstone of Engineering 1</td>
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Professional Development

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<tr>
<td>GE 1000</td>
<td>First-Year Seminar</td>
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<tr>
<td>ENCP 2000</td>
<td>Introduction to Engineering Co-op</td>
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<td>ENCP 3000</td>
<td>Professional Issues in Engineering</td>
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Additional Required Courses

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<tr>
<td>GE 1501</td>
<td>Cornerstone of Engineering 1</td>
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<tr>
<td>GE 1502</td>
<td>Cornerstone of Engineering 2</td>
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Writing Requirements

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<tr>
<td>A grade of C or higher is required:</td>
<td>ENGW 1111 First-Year Writing</td>
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<tr>
<td>or ENGW 3315</td>
<td>Advanced Writing in the Technical Professions</td>
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Required General Electives

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<tbody>
<tr>
<td>CIVE 3464</td>
<td>Probability and Engineering Economy for Civil Engineering</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1151</td>
<td>General Elective</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1153</td>
<td>General Elective</td>
<td>4</td>
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<tr>
<td>ENG 1111</td>
<td>General Elective</td>
<td>4</td>
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<tr>
<td>GE 1000</td>
<td>General Elective</td>
<td>1</td>
</tr>
<tr>
<td>GE 1501</td>
<td>General Elective</td>
<td>1</td>
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Major GPA Requirement

2.000 minimum required in major (CIVE) courses

Program Requirement

133 total semester hours required

Students can substitute Engineering Design (GE 1110) and Engineering Problem Solving and Computation (GE 1111) for Cornerstone of Engineering 1 (GE 1501) and Cornerstone of Engineering 2 (GE 1502) in approved situations.

Plan of Study

FOUR YEARS, TWO CO-OPS IN SUMMER 2 / FALL

Year 1

<table>
<thead>
<tr>
<th>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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<tr>
<td>CHEM 1151 (ND)</td>
<td>4</td>
<td>GE 1502 (ER)</td>
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<td>CIVE 2221</td>
<td>4</td>
<td>General Elective</td>
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<tr>
<td>CHEM 1153</td>
<td>0</td>
<td>MATH 1342 (FQ)</td>
<td>4</td>
<td>CIVE 2222</td>
<td>0</td>
<td>General Elective</td>
<td>4</td>
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<tr>
<td>ENGW 1111 (WF)</td>
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<td>PHYS 1151 (ND)</td>
<td>3</td>
<td>MATH 2321 (FQ)</td>
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<td>PHYS 1152 (AD)</td>
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<td>PHYS 1153</td>
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<tr>
<td>MATH 1341 (FQ)</td>
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<td>General Elective</td>
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Year 2

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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>
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<tbody>
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<td>CIVE 2260</td>
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<td>Co-op</td>
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<td>CIVE 2335</td>
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<td>CIVE 2261 (AD)</td>
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<td>GE 3000</td>
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<td>CIVE 2331</td>
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<td>MATH 2341</td>
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<td>CIVE 3435</td>
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Year 3

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<th>Hours</th>
<th>Summer 2</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Co-op</td>
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### FOUR YEARS, TWO CO-OPS IN SUMMER 1 / SPRING

#### Year 1

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<th>Summer 2</th>
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#### Year 2

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#### Year 3

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

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### FIVE YEARS, THREE CO-OPS IN SUMMER 2 / FALL

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**FIVE YEARS, THREE CO-OPS IN SUMMER 1 / SPRING**

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