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.

**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**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>CIVE 2221</td>
<td>Statics and Solid Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>and CIVE 2222</td>
<td>and Recitation for CIVE 2221</td>
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</tr>
<tr>
<td>CIVE 2260</td>
<td>Materials for the Built Environment</td>
<td>5</td>
</tr>
<tr>
<td>and CIVE 2261</td>
<td>and Lab for CIVE 2260</td>
<td></td>
</tr>
<tr>
<td>CIVE 2331</td>
<td>Fluid Mechanics and Hydraulics</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 2334</td>
<td>Environmental Engineering: Principles, Technology, and Sustainability</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 3435</td>
<td>Environmental Pollution Fate and Transport</td>
<td>4</td>
</tr>
<tr>
<td>CIVE 4534</td>
<td>Water Treatment Systems Design</td>
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</tr>
<tr>
<td>and CIVE 4535</td>
<td>and Lab for CIVE 4534</td>
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**Environmental Engineering Technical Electives**

Complete 11-12 semester hours from the following: 11-12

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<tr>
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</thead>
<tbody>
<tr>
<td>CIVE 4540</td>
<td>Resource Recovery and Waste Treatment Technologies Abroad</td>
</tr>
<tr>
<td>CIVE 4566</td>
<td>Design for Sustainable Transportation: Netherlands</td>
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<tr>
<td>CIVE 4575</td>
<td>Construction Management</td>
</tr>
<tr>
<td>CIVE 4777</td>
<td>Climate Hazards and Resilient Cities Abroad</td>
</tr>
<tr>
<td>CIVE 5260</td>
<td>Environmental Fluid Mechanics</td>
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<tr>
<td>CIVE 5261</td>
<td>Dynamic Modeling for Environmental Investment and Policymaking</td>
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<tr>
<td>CIVE 5271</td>
<td>Solid and Hazardous Waste Management</td>
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<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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<tr>
<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: 1

<table>
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<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CIVE 3464</td>
<td>Probability and Engineering Economy for Civil Engineering</td>
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</table>

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

<table>
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<tbody>
<tr>
<td>CIVE 2335</td>
<td>Environmental Engineering Chemistry</td>
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</table>

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

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>CIVE 3430</td>
<td>Engineering Microbiology and Ecology</td>
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</table>

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

<table>
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<tr>
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<tbody>
<tr>
<td>GE 1501</td>
<td>Cornerstone of Engineering 1 1</td>
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</table>

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

<table>
<thead>
<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>GE 1502</td>
<td>Cornerstone of Engineering 2 1</td>
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</table>

**Supporting Courses: Mathematics/Science**
Complete all Mathematics/Science courses with a minimum of 30 semester hours.

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<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
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<td>Required Mathematics/Science</td>
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<tr>
<td>CHEM 1151</td>
<td>General Chemistry for Engineers</td>
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<tr>
<td>and CHEM 1153</td>
<td>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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**Required Engineering**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CIVE 4765</td>
<td>Senior Design Project—Environmental</td>
<td>5</td>
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<tr>
<td>CIVE 5300</td>
<td>Environmental Sampling and Analysis</td>
<td>4</td>
</tr>
<tr>
<td>and CIVE 5301</td>
<td>and Lab for CIVE 5300</td>
<td></td>
</tr>
<tr>
<td>GE 3300</td>
<td>Energy Systems: Science, Technology, and Sustainability</td>
<td>4</td>
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</table>
MATH 1342  Calculus 2 for Science and Engineering  4
MATH 2321  Calculus 3 for Science and Engineering  4
MATH 2341  Differential Equations and Linear Algebra for Engineering  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

Science Elective (Earth)  Complete one of the following:  4-5
ENVR 1120  Oceans and Coasts
ENVR 1200  Dynamic Earth
ENVR 2200  Earth's Changing Cycles
ENVR 3125  Global Oceanic Change
ENVR 3200  Water Resources
ENVR 3600  Oceanography
ENVR 5201  Geologic Field Seminar

Supplemental Credit  3 semester hours from the following course count toward the mathematics/science requirement:
CIVE 3464  Probability and Engineering Economy for Civil Engineering  3

1 semester hour from the following course counts toward the mathematics/science requirement:
CIVE 2335  Environmental Engineering Chemistry  1
CIVE 3430  Engineering Microbiology and Ecology  1
GE 1501  Cornerstone of Engineering 1  1

Professional Development

Professional Development
GE 1000  Introduction to the Study of Engineering  1
ENCP 2000  Introduction to Engineering Co-op Education  1
ENCP 3000  Professional Issues in Engineering  1

Additional Required Courses

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

Writing Requirements

A grade of C or higher is required:
ENGW 1111  First-Year Writing  4
ENGW 3302  Advanced Writing in the Technical Professions  4
 or ENGW 3315  Interdisciplinary Advanced Writing in the Disciplines  4

Required General Electives

Complete 24 SH of academic, nonremedial, nonrepetitive courses.

Major GPA Requirement

2.000 minimum required in major (CIVE) courses

Program Requirement

133 total semester hours required

Students can substitute GE 1110 and GE 1111 for GE 1501 and 1502 in approved situations.

Plan of Study

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

Year 1

Fall  Hours  Spring  Hours  Summer 1  Hours  Summer 2
CHEM 1151 (ND)  4  GE 1502 (ER)  4  CIVE 2221  4  General Elective  4
CHEM 1153  0  MATH 1342 (FQ)  4  CIVE 2222  0  General Elective  4
ENGW 1111 (WF)  4  PHYS 1151 (ND)  3  MATH 2321 (FQ)  4
GE 1000  1  PHYS 1152 (AD)  1
GE 1501  4  PHYS 1153  1
MATH 1341 (FQ)  4  General Elective  4
17  17  8  8

Year 2

Fall  Hours  Spring  Hours  Summer 1  Hours  Summer 2
CIVE 2260  4  CIVE 2331  4  General Elective  4  Co-op  0
CIVE 2261 (AD)  1  CIVE 3435  4  General Elective  4
CIVE 2334  4  ENCP 2000  1
CIVE 2335  4  GE 3300  4
MATH 2341  4  Science Elective (Earth)  4
17  17  8  0

Year 3

Fall  Hours  Spring  Hours  Summer 1  Hours  Summer 2
Co-op  0  CIVE 3430  4  ENGW 3302 or 3315 (WD)  4  Co-op  0
CIVE 4534 (WI)  3  General Elective  4
CIVE 4535  1
Civil Tech. Elective  4

Year 4

Fall  Hours  Spring
Co-op  0  CIVE 3464  4
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>CIVE 5300</td>
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<td>CIVE 5301</td>
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Total Hours: 17

### FOUR YEARS, TWO CO-OPS IN SUMMER 1 / SPRING

#### Year 1

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<th>Summer 1</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>CIVE 2221</td>
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<td>MATH 1342 (FQ)</td>
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<td>ENGW 1111 (WF)</td>
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<td>MATH 2321 (FQ)</td>
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<td>PHYS 1152 (AD)</td>
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<td>PHYS 1153 (AD)</td>
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Year 2

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Year 3

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<th>Summer 1</th>
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Year 4

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<td>CIVE 3464</td>
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<td>CIVE 4765 (EI, WI, CE)</td>
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<td>CIVE 5300</td>
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<td>CIVE 5301</td>
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Total Hours: 133

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

#### Year 1

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<td>GE 1502 (ER)</td>
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Year 2

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<th>Spring</th>
<th>Hours</th>
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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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<th>Hours</th>
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Total Hours: 133
### Five Years, Three Co-ops in Summer 1 / Spring

#### Year 1

<table>
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<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer 1</th>
<th>Hours</th>
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Civil Tech. Elective | 4 |

Science Elective (Earth) | 4 |

Total Hours: 133