Environmental Studies, BA

The Bachelor of Arts in Environmental Studies degree is designed to provide students with a critical foundation in both the scientific and human foundation of environmental systems. It also prioritizes mastery of skills that will position students for future success as environmental professionals. In their first two years, all environmental studies majors complete introductory courses in critical scientific disciplines—including focusing on food, water, and climate resources—and in essential human dimensions—including sustainable development, environmental health, and environmental justice. Lastly, all students take required skill-building courses that are designed to promote success with desired co-op and career opportunities. Students then opt for one of five concentrations that build their training in courses from across the university. These concentrations are specifically designed to cover the breadth of areas where people and the environment intersect, including courses that draw on Northeastern’s expertise in public health, environmental justice, environmental law, visualization and storytelling of environmental issues, and the green economy. Students interested in viewing environmental problems specifically through quantitative social and natural science lenses should consider the BS Environmental and Sustainability Sciences (http://catalog.northeastern.edu/undergraduate/science/marine-environmental/environmental-sustainability-sciences-bs/) program.

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/).

BA Language Requirements
All BA students are required to complete the BA language requirements (http://catalog.northeastern.edu/undergraduate/university-academics/nupath/ba-requirements/).

NUPath Requirements
All undergraduate students are required to complete the NUpath Requirements (http://catalog.northeastern.edu/undergraduate/university-academics/nupath/).

Environmental Studies Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR</td>
<td>Marine and Environmental Sciences at Northeastern</td>
<td>1</td>
</tr>
</tbody>
</table>

| Core Courses |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 1101</td>
<td>Environmental Science</td>
<td>4</td>
</tr>
</tbody>
</table>

| Complete one of the following: |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCL 1246</td>
<td>Environment and Society</td>
<td></td>
</tr>
<tr>
<td>PHIL 1180</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>ANTH 1101</td>
<td>Peoples and Cultures</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 2401</td>
<td>Food Justice and Community Development</td>
<td></td>
</tr>
</tbody>
</table>

Scientific Foundations of Environmental Systems
ENVR 1110  Global Climate Change 4
ENVR 3150  Food Security and Sustainability 4
ENVR 3200  Water Resources 4

Human Dimensions of Environmental Systems
ENVR 2515  Sustainable Development 4
PHTH 2414  Environmental Health 4
SOCL 4522  Environmental Justice 4

Skills 13-14

Research Methods
Complete one of the following:
ENVR 2500  Biostatistics and Lab for ENVR 2500 4
ECON 2350  Statistics 4
POLS 2400  Quantitative Techniques 4
SOCL 2321  Research Methods in Sociology 4

ANTH 3410  Ethnographic Field Experience 4
ENVR 3300  Geographic Information Systems and Lab for ENVR 3300 5

ENVR 4000  Science Communication and Professional Development 4

Capstone 4

Complete one of the following:
ENVR 4050  Solving Emerging Environmental Challenges through Capstone 4
ENVR 4970  Junior/Senior Honors Project 1 4
or ENVR 4971  Junior/Senior Honors Project 2 4
ENVR 4997  Senior Thesis 4

Concentrations
Complete one of the following concentrations:
• Environmental and Human Health (p. 1)
• Environmental Ethics and Social Justice (p. 2)
• Environmental Law, Governance, and Management (p. 2)
• Communication and Visualization: Environmental Problems and Solutions (p. 2)
• The Green Economy: Business, Entrepreneurship, and Environmental Sustainability (p. 3)

Environmental Studies Major Credit Requirement
Complete 80 semester hours in the major.

Program Requirement
128 total semester hours required

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEMB 2302</td>
<td>Ecology and Lab for EEMB 2302</td>
<td>5</td>
</tr>
</tbody>
</table>

<p>| CONCENTRATION IN ENVIRONMENTAL AND HUMAN HEALTH |</p>
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EEMB 2302</td>
<td>Ecology and Lab for EEMB 2302</td>
<td>5</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Hours</td>
</tr>
<tr>
<td>----------</td>
<td>-----------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>EEMB 3466</td>
<td>Disease Ecology</td>
<td>4</td>
</tr>
<tr>
<td>PHTH 1270</td>
<td>Introduction to Global Health</td>
<td>4</td>
</tr>
<tr>
<td>PHTH 4202</td>
<td>Principles of Epidemiology in Medicine and Public Health</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives** 16

Complete four of the following:
- COMM 3500 Environmental Issues, Communication, and the Media
- EEMB 3460 Conservation Biology
- EEMB 3555 Networks and Natural Systems
- ENVR 4505 Wetlands
- ENVR 5450 Applied Social-Ecological Systems Modeling
- INTL 5100 Climate and Development
- PHTH 4120 Global Perspectives on Discrimination and Health
  or PHTH 5120 Race, Ethnicity, and Health in the United States
- PHTH 5214 Environmental Health
- POLS 2395 Environmental Politics and Policy
- SOCL 2485 Environment, Technology, and Society

**CONCENTRATION IN ENVIRONMENTAL ETHICS AND SOCIAL JUSTICE**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM 3500</td>
<td>Environmental Issues, Communication, and the Media</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 1180</td>
<td>Environmental Ethics</td>
<td>4</td>
</tr>
<tr>
<td>POLS 2395</td>
<td>Environmental Politics and Policy</td>
<td>4</td>
</tr>
<tr>
<td>SOCL 2485</td>
<td>Environment, Technology, and Society</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives** 16

Complete four of the following if PHIL 1180 was not taken as part of the core curriculum or five if it was:
- BUSN 3110 The Consulting Environment
- COMM 3532 Theories of Conflict and Negotiation
- EEMB 4000 Applied Conservation Biology
- ENVR 3151 Food Sustainability in the Mediterranean - Abroad
- ENVR 4504 Environmental Pollution
- ENVR 5350 Sustainable Energy and Climate Solutions
- ENVR 5450 Applied Social-Ecological Systems Modeling
- INTL 5100 Climate and Development
- MGMT 2115 Nonprofit Leadership and Social Innovation
- PHIL 2001 Ethics and Evolutionary Games
- PPUA 5268 International Environmental Policy
- PPUA 5270 Food Systems and Public Policy
- PPUA 5390 Special Topics in Public Policy and Urban Affairs

**CONCENTRATION IN COMMUNICATION AND VISUALIZATION: ENVIRONMENTAL PROBLEMS AND SOLUTIONS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTG 5110</td>
<td>Information Design History</td>
<td>4</td>
</tr>
<tr>
<td>COMM 3500</td>
<td>Environmental Issues, Communication, and the Media</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives** 16

Complete four of the following:
- JRNL 3650 Science Writing
- JRNL 3700 Data Storytelling

Complete one of the following:
- ARTG 6330 Information Design Mapping Strategies
- CIVE 5280 Remote Sensing of the Environment
- ENVR 5260 Geographical Information Systems

**CONCENTRATION IN ENVIRONMENTAL LAW, GOVERNANCE, AND MANAGEMENT**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LPSC 1101</td>
<td>Introduction to Law</td>
<td>4</td>
</tr>
<tr>
<td>LPSC 2301</td>
<td>Introduction to Law, Policy, and Society</td>
<td>4</td>
</tr>
</tbody>
</table>

**Electives** 16

Complete four of the following:
- ARTG 3520 Marketing Communications and Cultures 2
- ARTG 5130 Visual Communication for Information Design
- CIVE 5280 Remote Sensing of the Environment
- COMM 2555 Games for Change
- COMM 3532 Theories of Conflict and Negotiation
- ENVR 3201 Coastal Sustainability: Ecology and Coupled Human-Natural Systems in Southeast Asia
- ENVR 3202 Coastal Sustainability: The Blue Economy of the Gulf of Maine
- EEMB 3555 Networks and Natural Systems
- ENVR 5450 Applied Social-Ecological Systems Modeling
**ENVR 5563**  Advanced Spatial Analysis  3
**GAME 2755**  Games and Social Justice  
**JRNL 3650**  Science Writing  
**JRNL 3700**  Data Storytelling

Concentration in the Green Economy: Business, Entrepreneurship, and Environmental Sustainability

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSN 1110</td>
<td>Fundamentals of Business</td>
<td>4</td>
</tr>
<tr>
<td>FINA 2720</td>
<td>Sustainability in the Business Environment</td>
<td>4</td>
</tr>
</tbody>
</table>

*Complete one of the following:*  4
- ENVR 5210  Environmental Planning  
- ENVR 5220  Ecosystem-Based Management

*Complete one of the following:*  4
- BUSN 3110  The Consulting Environment  
- ENTR 2206  Global Social Enterprise  
- ENTR 3520  Impact Investing and Social Finance

**Electives**  16

*Complete four of the following:*  
- BUSN 3110  The Consulting Environment  
- CIVE 5275  Life Cycle Assessment of Materials, Products, and Infrastructure  
- ECON 3423  Environmental Economics  
- EEMB 2420  Fisheries Biology, Policy, and Conservation  
- ENTR 2301  Innovation!  
- ENTR 3520  Impact Investing and Social Finance  
- ENVR 3201  Coastal Sustainability: Ecology and Coupled Human-Natural Systems in Southeast Asia  
- ENVR 3202  Coastal Sustainability: The Blue Economy of the Gulf of Maine  
- ENVR 5210  Environmental Planning  
- ENVR 5220  Ecosystem-Based Management  
- ENVR 5350  Sustainable Energy and Climate Solutions  
- ME 5645  Environmental Issues in Manufacturing and Product Use  
- MGMT 3520  Consulting Fundamentals and Frameworks  
- MGMT 3530  Project Management  
- MKTG 2301  Marketing and Society  
- PHIL 1180  4 PHTH 2414  4

**Plan of Study**

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

**Year 1**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours Spring</th>
<th>Hours Summer 1</th>
<th>Hours Summer 2</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVR 1000</td>
<td>4 ENVR 1110</td>
<td>4 General elective 1</td>
<td>4 General elective 3</td>
<td>4</td>
</tr>
<tr>
<td>ENVR 1101</td>
<td>4 ENVR 3150</td>
<td>4 General elective 2</td>
<td>4 General elective 4</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 1180</td>
<td>4 PHTH 2414</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours: 130**