Malcolm D. Hill, PhD  
Associate Professor  
Brian Helmuth, PhD  
Professor

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617.373.3176  
617.373.4378 (fax)

Malcolm D. Hill, Associate Professor, m.hill@northeastern.edu  
Brian Helmuth, Professor and Director of the Sustainable Science and Policy Initiative, b.helmuth@northeastern.edu

The Bachelor of Arts in Environmental Studies degree is designed to provide a flexible platform for students whose primary interest is in the area of environmental policy. In their first two years, all environmental studies majors complete introductory courses in the sciences (biology, chemistry, geology), as well as introductory- to intermediate-level course work in economics, political science, philosophy, and sociology. Students then work with a faculty advisor to select a cluster composed of intermediate- to upper-level courses in an area appropriate to the student’s career objectives. These cluster areas include sustainability, urban environmental issues, water issues, international affairs, public policy, and marine studies. A senior thesis is required in the environmental studies major. (Students interested in studying environmental issues from a science-based perspective should consider the BS in environmental science (http://catalog.northeastern.edu/undergraduate/science/marine-environmental/environmental-science-bs).)

A number of combined-major programs are offered; these can help focus a student’s course choices along avenues that faculty feel are particularly appropriate.

Students in the environmental studies program are prepared to work in environmental planning, regulation, policy, or compliance. These broad-based programs also aim to prepare students to go into environmental education or law. Co-op experiences in environmental planning may include government internships or work in environmental compliance offices.

**Academic Progression Standards**

Same as college standards.

**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).

**Environmental Studies Major Requirements**

**Introduction to College**

<table>
<thead>
<tr>
<th>ENVR 1000</th>
<th>Marine and Environmental Sciences at Northeastern</th>
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**Science Courses**

**Required Science Courses**

<table>
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<tr>
<th>ENVR 1101</th>
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<table>
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<th>ENVR 1110</th>
<th>Global Climate Change</th>
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Complete one of the following:

<table>
<thead>
<tr>
<th>CHEM 1101 and CHEM 1102 and CHEM 1103</th>
<th>General Chemistry for Health Sciences and Lab for CHEM 1101 and Recitation for CHEM 1101</th>
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<table>
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<th>PHYS 1145 and PHYS 1146</th>
<th>Physics for Life Sciences 1 and Lab for PHYS 1145</th>
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**Ethics Course**

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or PHIL 1185  
The Ethics of Food

**Economics Course**

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<th>ECON 1116</th>
<th>Principles of Microeconomics</th>
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**Sociology Course**

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**Law and Political Science Courses**

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**Environmental Impact Courses**

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Environmental Studies, BA

or ENVR 1200 Dynamic Earth
ENVR 2900 Special Topics in Environmental Studies 4
or EEMB 3460 Conservation Biology
ENVR 4515 Sustainable Development 4
ENVR 5210 Environmental Planning 4
or ENVR 5250 Geology and Land-Use Planning

Statistics Course
Complete one of the following: 4
ECON 2350 Statistics
MATH 2280 Statistics and Software
POL 4200 Quantitative Techniques
SOCL 3230 Statistical Analysis in Sociology

Senior Thesis
ENVS 4997 Senior Thesis 1-4
or ENVR 4900 Earth and Environmental Science Capstone

Environmental Studies Cluster
Complete one of the following clusters:

International Cluster
Select six of the following: 24
ECON 3404 International Food Economics and Policy
ENVR 3300 Geographic Information Systems and Lab for ENVR 3300
HIST 3412 Global Environmental History
HIST 4620 Topics in Historical Geography
INTL 2240 Global Population and Development
PHIL 3480 Environmental Philosophy
POLS 2357 Growth and Decline of Cities and Suburbs
POLS 2395 Environmental Politics and Policy
SOCL 3485 Environment, Technology, and Society
SOCL 4522 Political Ecology and Environmental Justice

Dialogue of Civilizations Restricted Courses
CIVE 4540 Resource Recovery and Waste Treatment Technologies Abroad
CIVE 4778 Climate Adaptation and Policy Abroad
ENVR 5202 Environmental Science Field Seminar Abroad

Marine Cluster
Select six of the following: 17-25
EEMB 2410 Fish Biology and Ecology
EEMB 2420 Fisheries Biology, Policy, and Conservation
EEMB 2616 and EEMB 2617 Invertebrate Zoology and Lab for EEMB 2616
EEMB 3460 Conservation Biology
EEMB 5130 Ecological Dynamics and Lab for EEMB 5130
ENVR 3125 Global Oceanic Change
ENVR 3300 and ENVR 3301 Geographic Information Systems and Lab for ENVR 3300

ENVR 4106 Coastal Processes
ENVR 4505 Wetlands
ENVR 5242 Ancient Marine Life and Lab for ENVR 5242
ENVR 5244 Sedimentation
ENVR 5248 Marine Geology

Marine Studies Consortium Courses (unrestricted)
MARS 3210 Marine Mammals
MARS 3305 Maritime History of New England
MARS 3310 Water Resources Policy and Management
MARS 3325 Coastal Zone Management
MARS 3430 Biology of Whales

Sea Semester Restricted Courses
ENVR 2940 Oceans in the Global Carbon Cycle
ENVR 2941 Ocean Science and Public Policy
ENVR 2942 Maritime History and Culture: The Caribbean
ENVR 2943 Marine Environmental History: The Caribbean
ENVR 3100 Oceanography
ENVR 3101 Nautical Science
ENVR 3102 Maritime Studies
ENVR 3103 Oceanographic Field Methods
ENVR 3104 Advanced Oceanographic Field Methods

Three Seas Restricted Courses
EEMB 5504 Biology of Corals
EEMB 5506 Biology and Ecology of Fishes
EEMB 5508 Marine Birds and Mammals and Lab for EEMB 5508
EEMB 5512 Tropical Terrestrial Ecology
EEMB 5516 and EEMB 5517 Oceanography and Lab for EEMB 5516
EEMB 5518 Ocean and Coastal Processes
EEMB 5520 Coral Reef Ecology
EEMB 5522 and EEMB 5523 Experimental Design Marine Ecology and Lab for EEMB 5522
EEMB 5528 Marine Conservation Biology
EEMB 5532 Physiological and Molecular Marine Ecology
EEMB 5534 Marine Invertebrate Zoology and Botany and Lab for EEMB 5534
EEMB 5536 Ocean and Coastal Sustainability
EEMB 5589 Diving Research Methods

Policy Cluster
Select six of the following: 23-24
CIVE 5270 Environmental Protection and Management
ECON 3423 Environmental Economics
ECON 3425 Energy Economics
ENVR 3300 Geographic Information Systems and Lab for ENVR 3300
HIST 2342 Environmental History of North America
HIST 4620 Topics in Historical Geography
Environmental Studies, BA

**Sustainability Cluster**
Select six of the following: 23-24

<table>
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<tr>
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<tr>
<td>PPUA 5270</td>
<td>Food Systems and Public Policy</td>
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<tr>
<td>SOCL 4522</td>
<td>Political Ecology and Environmental Justice</td>
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**Urban Cluster**
Select six of the following: 23-24

<table>
<thead>
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<th>Course Title</th>
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<tbody>
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<td>Geographic Information Systems</td>
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<tr>
<td>ENVR 3301</td>
<td>and Lab for ENVR 3300</td>
</tr>
<tr>
<td>ENVR 4505</td>
<td>Wetlands</td>
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<tr>
<td>HIST 2342</td>
<td>Environmental History of North America</td>
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<tr>
<td>HIST 3412</td>
<td>Global Environmental History</td>
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<td>HIST 4620</td>
<td>Topics in Historical Geography</td>
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<td>INTL 2240</td>
<td>Global Population and Development</td>
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<td>LARC 5210</td>
<td>Landscape Ecology</td>
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<td>Marine Studies Consortium Courses (unrestricted)</td>
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<td>MARS 3310</td>
<td>Water Resources Policy and Management</td>
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**Water Cluster**
Select six of the following: 24-25

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CIVE 2334</td>
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<td>ENVR 3300</td>
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<td>and Lab for ENVR 3300</td>
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<td>ENVR 4500</td>
<td>Applied Hydrogeology</td>
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<td>and Lab for ENVR 4500</td>
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<td>ENVR 4505</td>
<td>Wetlands</td>
</tr>
<tr>
<td>or MARS 3300</td>
<td>The Ocean World</td>
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<td>HIST 2342</td>
<td>Environmental History of North America</td>
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<tr>
<td>Marine Studies Consortium Courses (unrestricted)</td>
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<tr>
<td>MARS 3310</td>
<td>Water Resources Policy and Management</td>
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<tr>
<td>MARS 3325</td>
<td>Coastal Zone Management</td>
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</table>

**Interdisciplinary Cluster**

Create a plan of six courses under the guidance of the program director.

**Environmental Studies Major Credit Requirement**
Complete 73 semester hours in the major.

**Program Requirement**
128 total semester hours required

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

**Year 1**

<table>
<thead>
<tr>
<th>Term</th>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<td>ENVR 1000</td>
<td>Environmental Science 1</td>
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<td>ECON 1116</td>
<td>Elective</td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td>ENVR 1101</td>
<td>Environmental Science 2</td>
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<td></td>
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<td>ENVR 1111</td>
<td>Elective</td>
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<td></td>
<td></td>
<td>ENVR 1112</td>
<td>Elective</td>
<td>4</td>
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<td></td>
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<td>ENVR 1150</td>
<td>Elective</td>
<td>4</td>
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<td>ENVR 1151</td>
<td>Elective</td>
<td>4</td>
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<td>SOCL 1246</td>
<td>Elective</td>
<td>4</td>
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**Year 2**

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<th>Hours</th>
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**Year 3**

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<td>POLS 2395</td>
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**Year 4**

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<td>ENVR 4900</td>
<td>Elective</td>
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Create a plan of six courses under the guidance of the program director.

**Environmental Studies Major Credit Requirement**
Complete 73 semester hours in the major.

**Program Requirement**
128 total semester hours required

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

**Year 1**

<table>
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**Year 2**

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**Year 3**

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**Year 4**

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

**Year 1**

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#### Four Years, Two Co-ops in Summer 2/Fall

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<td>and POLS 1151</td>
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Year 2

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Year 4

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Total Hours: 132-135

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

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<td>ENVR 1112 or 1200</td>
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<td>and POLS 1151</td>
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Year 3

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Year 4

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Total Hours: 132-135
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**Total Hours: 132-135**

### Five Years, Three Co-ops in Summer 2/Fall

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**Total Hours: 132-135**