Environmental Science
Bachelor of Science

The Environmental Science program at Unity College is built around a sustainability framework that seeks to understand the interactions between natural and social systems. Students in the Environmental Science major will build knowledge and skills related to ecosystems, natural resources, human behavior, and social systems through a combination of active classroom and field experiences and case studies. They will have opportunities to analyze and evaluate solutions to current problems such as developing a sustainable regional food system, meeting growing needs for energy globally, and obtaining raw materials in ways that protect local ecosystems and respect indigenous cultures. The Environmental Science program will prepare students to work collaboratively with stakeholders to address environmental challenges in diverse settings.

Graduates in the B.S. in Environmental Science will be able to:

1. Draw on an understanding of matter cycles, ecosystem dynamics, and energy flow in the atmosphere, biosphere, geosphere, and hydrosphere to address environmental challenges.
2. Identify and describe how human activity contributes to environmental unsustainability by disrupting naturally occurring cycles.
3. Draw on psychological and sociological theories to explain and anticipate human behavior and decision-making and design interventions to promote pro-environmental behavior.
4. Critically evaluate, interpret, and use data from the natural sciences and social sciences to design and evaluate potential solutions to environmental problems.
5. Integrate knowledge of ecosystem processes, human behavior, and social systems to develop and defend solutions to environmental sustainability challenges in various contexts, such as business, government, and/or non-government organizations.

Program Highlights

Flexible and affordable, our Hybrid Learning programs offer students a new way to earn a degree from America’s Environmental College. Students can choose where and how to learn according to individual preferences and ultimate career goals.

Unity College is an accredited institution by New England Commission of Higher Education.

With eight start dates per year, students can apply year-round and enter into the program at any point in the year.

Our five-week terms let students concentrate on just one or two classes at a time.

All classes are taught by faculty who are experts in their respective fields and trained in pedagogical practices specific to their modality, online or face-to-face.

Overview of Degree Requirements (120 Credits Total)

To earn the Bachelor of Science in Environmental Science degree, you must complete:

- General Education Core: 40 credits
- Major Core: 40 credits
- Electives: 40 credits

You must complete a minimum of 30 credits of coursework at the 300 level or above.

GENERAL EDUCATION CORE [40 CR.] COMPLETED ONLINE

- BIOL 105 Biological Diversity, Ecology, and Evolution (3 cr)
- BIOL 106 Biological Diversity, Ecology, and Evolution Laboratory (1 cr)
- COMM 101 Writing for Environmental Professionals (3 cr)
- COMM 201 Multimedia Communication for Environmental Professionals (3 cr)
- ENVJ 303 American Government: Foundations in Environmental Law (3 cr)
- ENVS 201 The Warming Planet: Understanding Climate Change (3 cr)
- ESCI 101 Geology and Our Environment (3 cr) or ESCI 103 Environmental Science (3 cr)
- EVPC 101 Professional Skills (3 cr)
- EVPC 201 Environmental Issues: Deforestation, Biodiversity Loss, and Overpopulation (3 cr) or EVPC 202 Environmental Issues: Energy, Water Scarcity, and Waste (3 cr)
- MATH 201 Statistics for Environmental Professionals (3 cr)
- PSYC 101 Introduction to Psychology (3 cr)
COMPLETE ONE COURSE (3 CR) FROM EACH OF THE FOLLOWING CURRICULUM AREAS:

- Arts
- Humanities

COMPLETED AT PROFESSIONAL PLACEMENT SITE:
- IS 390 Internship (3 cr)

ENVIRONMENTAL SCIENCE CORE [40 CR.]

COMPLETE ONE COURSE FROM EACH ROW IN THE TABLE BELOW. EACH REQUIREMENT HAS AN ONLINE OPTION AND AN IN-PERSON OPTION.

**ENVIRONMENTAL SCIENCE FOUNDATIONS (22 CR)**

<table>
<thead>
<tr>
<th>ONLINE OPTION</th>
<th>IN-PERSON OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3 CR UNLESS INDICATED)</td>
<td>(3 CR UNLESS INDICATED)</td>
</tr>
<tr>
<td>CHEM 101 Inorganic Chemistry 1</td>
<td>CH 101 General Chemistry 1</td>
</tr>
<tr>
<td>CHEM 102 Inorganic Chemistry 1</td>
<td>CH 102 General Chemistry 1</td>
</tr>
<tr>
<td>Laboratory (1 cr)</td>
<td>Laboratory (1 cr)</td>
</tr>
<tr>
<td>ECON 303 Macroeconomics for a Sustainable Planet</td>
<td>SU 301 Ecological Economics</td>
</tr>
<tr>
<td>EVPC 490 Transdisciplinary Capstone</td>
<td>SU 490 Environmental Capstone</td>
</tr>
<tr>
<td>WCON 301 Human Dimensions of Wildlife Conservation</td>
<td>PY 301 Conservation Psychology</td>
</tr>
<tr>
<td>ENVS 301 Building Sustainable Communities</td>
<td>SU 303 Sustainable Development</td>
</tr>
<tr>
<td>ENVS 303 Social Science for Environmental Professionals</td>
<td>SU 302 Social Science for Environmental Professionals</td>
</tr>
</tbody>
</table>

**ECOSYSTEM PROCESSES MENU – COMPLETE 6 CREDITS FROM THIS MENU**

<table>
<thead>
<tr>
<th>ONLINE OPTION</th>
<th>IN-PERSON OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3 CR UNLESS INDICATED)</td>
<td>(3 CR UNLESS INDICATED)</td>
</tr>
<tr>
<td>BIOL 201 Organisms That Sustain the Earth: Understanding Plants</td>
<td>BI 201 Biology &amp; Identification of Wildlife Plants</td>
</tr>
<tr>
<td>BIOL 305 Conservation Biology</td>
<td>BI 203 Dendrology</td>
</tr>
<tr>
<td>BIOL 310 Environmental Microbiology</td>
<td>BI 305 Conservation Biology</td>
</tr>
<tr>
<td>CHEM 103 Inorganic Chemistry 2</td>
<td>BI 310 Organismal Biology: Theme</td>
</tr>
<tr>
<td>CHEM 104 Inorganic Chemistry 2</td>
<td>BI 401 Ecosystem Ecology (3 cr)</td>
</tr>
<tr>
<td>Laboratory (1 cr)</td>
<td>CH 201 Environmental Chemistry</td>
</tr>
<tr>
<td>ESCI 101 Geology and Our Environment</td>
<td>PS 201 Environmental Geology</td>
</tr>
<tr>
<td>ESCI 305 Environmental Remediation &amp; Toxictology</td>
<td>PS 202 Fundamental Physics for Addressing Sustainability Challenges</td>
</tr>
<tr>
<td>PHYS 201 Physics 1</td>
<td>WF 310 Habitat Assessment &amp; Management</td>
</tr>
<tr>
<td>PHYS 202 Physics 2 Laboratory (1 cr)</td>
<td>WF 311 Population Assessment &amp; Management</td>
</tr>
<tr>
<td>PHYS 203 Physics 2</td>
<td></td>
</tr>
<tr>
<td>PHYS 204 Physics 2 Laboratory (1 cr)</td>
<td></td>
</tr>
</tbody>
</table>
Job Outcomes

<table>
<thead>
<tr>
<th>Position</th>
<th>Growth*</th>
<th>Salary**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sustainability Specialist</td>
<td>+8.8%</td>
<td>$74,000</td>
</tr>
<tr>
<td>Project Manager</td>
<td>+8%</td>
<td>$80,000</td>
</tr>
<tr>
<td>Alternative Energy Manager</td>
<td>+8%</td>
<td>$72,000</td>
</tr>
</tbody>
</table>

*Projected 10-year growth  **national median salary

HUMANS & THE ENVIRONMENT MENU – COMPLETE 6 CREDITS FROM THIS MENU

ONLINE OPTION
(3 CR UNLESS INDICATED)
- COMM 203 Environmental Communication
- COMM 303 Communicating to Stakeholders
- HUMN 101 Pop Culture & the Environment
- HUMN 201 Global Conflicts, Reconciliations, & Transformations
- SOCI 101 Introduction to Environmental Sociology
- WCON 301 Human Dimensions of Wildlife Conservation

IN-PERSON OPTION
(3 CR UNLESS INDICATED)
- AN 101 Cultural Anthropology
- CM 201 Environmental Communication
- CM 301 Environmental Storytelling
- ED 301 Skills for Facilitating Outdoor Learning Experiences
- HU 201 American Environmental History
- HU 301 Global Environmental History
- PY 201 Group Process

SOCIAL SYSTEMS MENU – COMPLETE 6 CREDITS FROM THIS MENU

ONLINE OPTION
(3 CR UNLESS INDICATED)
- ECON 301 Microeconomics for Ecological Sustainability
- ENCJ 305 Natural Resource Law & Policy
- ENCJ 401 Environmental Compliance, Regulation, & Mitigation
- ENVJ 305 Sustainable Design & Justice
- ENVJ 307 Food Systems & Social Justice
- ENVS 101 Sustainable Solutions to Globalization
- MGMT 201 Understanding the Sustainable Business Landscape
- MGMT 403 Global Supply Chain Operations: Greening Your Business
- RNRG 101 Introduction to Green Energy: Politics & Implementation

IN-PERSON OPTION
(3 CR UNLESS INDICATED)
- CL 201 Introduction to Criminal Justice
- ES 201 Environmental Issues & Insights
- ES 302 Environmental Advocacy
- IS 201 Sustainable Mariculture
- IS 302 Renewable Energy
- IS 303 Wildlife Trafficking