ENVIRONMENT, SOCIETY, AND CULTURE, MINOR

Liberal Arts (Code 489-401)

Advisors: J. Boulter (Public Health and Environmental Studies), K. Mumford (Public Health and Environmental Studies), J. Phillips (Chemistry), C. Pierce (Public Health and Environmental Studies), D. Soll (Public Health and Environmental Studies).

The Environment, Society, and Culture minor enables students to apply interdisciplinary approaches to investigate the human and ecological dimensions of environmental issues, including climate change, environmental justice, pollution, and sustainable food systems. The minor provides the opportunity to integrate courses from a variety of disciplines, including economics, environmental science, ethics, gender studies, geography, history, policy, public health, and sociology. Concepts and tools from these disciplines empower students to address environmental challenges at local-to-global scales. The minor is open to all students and is designed to be flexible so that students can tailor their courses to meet their particular needs and interests.

In addition, students gain real world research skills and apply principles of environmental justice, civic engagement, sustainability, and strategic policy development to learn about the underlying drivers of critical challenges such as climate change, air and water pollution, biodiversity loss, urbanization, and infectious disease outbreaks. Students in the minor examine social and environmental conflicts and the policies and strategies to address these conflicts. The Environment, Society, and Culture minor challenges students to think critically and holistically to understand the social and environmental dynamics of environmental concerns.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BIOL 180</td>
<td>Environmental Biology and Conservation</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 127</td>
<td>Chemistry and Climate</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 178</td>
<td>Conservation of the Environment</td>
<td>1</td>
</tr>
<tr>
<td>ENPH 110</td>
<td>Introduction to Environmental Health</td>
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<td>ENPH 115</td>
<td>Global Environmental and Public Health</td>
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</tr>
<tr>
<td>ECON 268</td>
<td>Environmental Economics</td>
<td>1</td>
</tr>
<tr>
<td>ENV 310</td>
<td>Sustainable Cities</td>
<td>1</td>
</tr>
<tr>
<td>ENV 330</td>
<td>Waste &amp; Society: Energy, Food, and Efficiency</td>
<td>1</td>
</tr>
<tr>
<td>ENV/GEOG 377</td>
<td>U.S. Environmental and Sustainability Policy</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 369</td>
<td>Geography of Food</td>
<td>1</td>
</tr>
<tr>
<td>GEOG/ENV 378</td>
<td>International Environmental Problems and Policy</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 445</td>
<td>Historical Geography</td>
<td>1</td>
</tr>
<tr>
<td>HIST/ENV 346</td>
<td>American Environmental History</td>
<td>1</td>
</tr>
<tr>
<td>SOC 301</td>
<td>Environmental Sociology</td>
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Minimum of 24 credits, with at least 12 credits from courses at the 300-level or above, including:

Select at least one gateway course from the following:

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Select at least three of the following from the “Socio-cultural Perspectives” category:

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<tr>
<td>SOC 301</td>
<td>Environmental Sociology</td>
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Program Learning Outcomes

Students completing this program will be expected to meet the following learning outcomes:

- Examine the human impacts on environmental systems using scientific inquiry.
- Describe political, economic, and social dimensions of environmental problems.

Note 1: Credits from other courses may also be applied as electives, pending advisor and college approval, when they focus specifically on environmental topics. This includes special topics, directed studies, independent study, and/or internships. Applicable environmental courses offered through the Honors program, International Study Abroad or National Student Exchange may also be applied with consent of an advisor.

Note 2: For students pursuing a standard major in Geography, a maximum of 12 credits from the major may be applied to this minor.

Natural Science Focus Area: A two-course sequence in a natural science chosen from the following options:

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<td>BIOL 328</td>
<td>Conservation Biology</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>Chemical Principles</td>
<td>1</td>
</tr>
<tr>
<td>&amp; CHEM 304</td>
<td>Environmental Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>GEOG 115</td>
<td>Environmental Geography</td>
<td>1</td>
</tr>
<tr>
<td>&amp; GEOL 301</td>
<td>and Earth Resources and Sustainability</td>
<td>1</td>
</tr>
<tr>
<td>or GEOL 308</td>
<td>Water Resources</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 104</td>
<td>The Physical Environment</td>
<td>1</td>
</tr>
<tr>
<td>&amp; GEOG 340</td>
<td>and Introduction to Geomorphology</td>
<td>1</td>
</tr>
<tr>
<td>or GEOG 361</td>
<td>Climatology</td>
<td>1</td>
</tr>
<tr>
<td>or GEOG 340</td>
<td>Environmental Hazards</td>
<td>1</td>
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Select additional courses selected from those listed above or from the options below to reach a total of 24 credits:

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<td>Biological Field Experiences and Service-Learning Capstone</td>
<td>1</td>
</tr>
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<td>ENPH 441</td>
<td>Water and Wastewater</td>
<td>1</td>
</tr>
<tr>
<td>ENPH 445</td>
<td>Hazardous and Solid Waste Management</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 270</td>
<td>Introduction to Urban and Regional Planning</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Soils and the Environment</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 365</td>
<td>Tourism Geographies</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 368</td>
<td>Geography Field Seminar</td>
<td>1</td>
</tr>
<tr>
<td>GEOG/AIS 322</td>
<td>Native Geographies</td>
<td>1</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Earth Algebra</td>
<td>1</td>
</tr>
<tr>
<td>PH 450</td>
<td>Epidemiology</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 205</td>
<td>Physics of Renewable Energy</td>
<td>1</td>
</tr>
<tr>
<td>SOC 314</td>
<td>Social Class and Inequality</td>
<td>1</td>
</tr>
</tbody>
</table>

1 Must take either GEOG 178 or BIOL 180 as the gateway course as a prerequisite to BIOL 328.
2 CHEM 105, CHEM 106, and CHEM 109 may be used in lieu of CHEM 115 but only six credits may be counted toward the minor from these courses.
• Recognize the spiritual and philosophical interconnections between humans and the environment.
• Integrate scientific, socioeconomic, and ethical perspectives to address environmental issues.