Undergraduate Major in Environmental Science and Policy

Overview
The Gulf oil spill. Global climate change. Drought and water supply. Fukushima. Each of these topics illustrates the continuing need for environmental professionals with training in the natural sciences and social sciences. The Environmental Science and Policy B.A. prepares students interested in environmental problem solving by linking an understanding of natural science with socioeconomic factors and public policy.

The curriculum combines a quantitative understanding of environmental science, chemistry, and biology with law, policy, and economics to provide a foundation for careers in environmental policy, resource management, education, environmental law, urban and environmental design, and related fields.

Career Opportunities
The Environmental Science and Policy major provides a strong interdisciplinary foundation for students to pursue a range of public and private sector positions, including environmental management, resource management, environmental law, environmental consulting, work with nonprofit organizations and non-governmental agencies, and related areas. Students are poised to pursue graduate studies (professional Masters degree or Ph.D.) in the following fields: environmental science, environmental studies, public policy, public administration, urban and regional planning, geography and related fields.

The Environmental Science and Policy major provides students with a solid foundation to recognize the impacts of human activities on the environment, and in turn, the impacts of environmental change on society. Students are taught the mechanisms by which key institutions, policies, and regulations impact ecosystems and the physical environment.

Once the core course work is complete, students are encouraged to focus on a particular area within Environmental Science and Policy, and to choose electives that build a coherent core of knowledge. Focus areas include, but are not limited to, urban planning, public policy, sociology, economics, climatology, water resources, water quality, agriculture, air pollution, resource management, and atmospheric sciences.

Admission
Students may be admitted to the Environmental Science and Policy major upon entering the university as freshmen, via change of major, or as transfer students from other colleges and universities. Information about change of major policies is available from the Physical Sciences student affairs office and the UCI Change of Major Criteria website (http://changeofmajor.uci.edu).

Requirements for the B.A. in Environmental Science and Policy
All students must meet the University Requirements (http://catalogue.uci.edu/informationforadmittedstudents/requirementsforabachelorsdegree).

A. Complete:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>EARTHSS 40A</td>
<td>Earth System Chemistry</td>
</tr>
<tr>
<td>or</td>
<td>CHEM 1A-CHEM 1B-CHEM 1C-CHEM 1LC-CHEM 1LD</td>
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<td>or</td>
<td>CHEM H2A-CHEM H2B-CHEM H2C-CHEM H2LA-CHEM H2LB-CHEM H2LC</td>
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<td>EARTHSS 40B</td>
<td>Earth System Biology</td>
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<td>or</td>
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<td>EARTHSS 40C</td>
<td>Earth System Physics</td>
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<tr>
<td>or</td>
<td>PHYSICS 3A-PHYSICS 3B-PHYSICS 3C-PHYSICS 3LB-PHYSICS 3LC</td>
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<td>or</td>
<td>PHYSICS 7C-PHYSICS 7D-PHYSICS 7E-PHYSICS 7LC-PHYSICS 7LD</td>
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<tr>
<td>SOCCECOL E8</td>
<td>Introduction to Environmental Analysis and Design</td>
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<tr>
<td>UPPP 5</td>
<td>Introduction to Urban Planning and Policy</td>
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<tr>
<td>STATS 7</td>
<td>Basic Statistics 1</td>
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<td>or</td>
<td>STATS 8</td>
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<td>or</td>
<td>SOCCECOL 13</td>
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<tr>
<td>or</td>
<td>SOC SCI 10A-SOC SCI 10B-SOC SCI 10C</td>
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<tr>
<td>EARTHSS 70A</td>
<td>Sustainable Energy Systems</td>
</tr>
<tr>
<td>EARTHSS 70B</td>
<td>Sustainable Food and Water Systems</td>
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<tr>
<td>EARTHSS 116</td>
<td>Data Analysis for Earth Sciences</td>
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<tr>
<td>EARTHSS 192</td>
<td>Careers in Earth System Science</td>
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<td>SOCCECOL 10</td>
<td>Research Design</td>
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</table>
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SOCECOL 195
or SOCECOL 195W
Field Study

B. Select three of the following:

UPPP 133
Environmental Law and Policy

UPPP 145
Environmental Governance

UPPP 146
Principles of Economics for Planning and Policy

UPPP 131
Environmental Sustainability I

C. Select seven 4-unit upper-division UPPP or EARTHSS courses (100-196), with at least two courses from UPPP and two courses from EARTHSS. Courses used to count toward degree requirements may not be used as electives. Up to two of the seven electives can be satisfied with 4-unit EARTHSS 199 and/or 4-unit SOCECOL 199 courses. For this requirement, SOCECOL 199 courses can be counted as UPPP electives.

1 Students who score a minimum of 3 on the AP Statistics exam do not have to take STATS 7 or its equivalents.

2 Site must be listed within one of the following sections of the Field Study Catalog (https://fieldstudy.soceco.uci.edu/pages/field-study-catalog): Environment, Planning, or Public Policy. For more information, visit the Social Ecology Field Study website (https://fieldstudy.soceco.uci.edu).

NOTE: This major is open to all students. However, courses being applied to another major cannot also be counted as upper-division electives for the B.A. in Environmental Science and Policy.

Sample Program

Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>EARTHSS 40A</td>
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Sophomore

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<td>EARTHSS 70B</td>
<td>EARTHSS 116</td>
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<tr>
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<td>General Education/Elective</td>
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<tr>
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Junior

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<tbody>
<tr>
<td>UPPP 145</td>
<td>SOCECOL 195</td>
<td>UPPP 133</td>
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<tr>
<td>EARTHSS 192</td>
<td>EARTHSS upper-division elective</td>
<td>UPPP upper-division elective</td>
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Senior

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<tbody>
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<td>UPPP upper-division elective</td>
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<tr>
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<td>Upper-division elective</td>
<td>EARTHSS upper-division elective</td>
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<tr>
<td>General Education/Elective</td>
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<td>Elective</td>
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Honors Program

In the year-long honors course sequence, Environmental Science and Policy students admitted into the Environmental Science and Policy honors program pursue research with faculty in the Earth Systems Science or Urban Planning and Public Policy Departments, and prepare a written thesis of their work. Visit the Earth System Science honors program website (http://catalogue.uci.edu/interdisciplinaritystudies/environmentalscienceandpolicy/?20https://www.ess.uci.edu/undergrad/ess/honors) for more information.