Environmental Sciences Major Snapshot
Department of Environmental Science, Policy, and Management

The Environmental Sciences (ES) major is designed for students interested in studying environmental problems from a scientific perspective. The ES major prepares students to deal with issues arising from the impact of human interaction on natural systems. To address these problems, all ES students acquire strong backgrounds in math, biological sciences, and physical sciences. Students may choose to specialize further in a biological or physical science field such as ecology, conservation biology, toxicology, geology, hydrology, meteorology, engineering, or a social science field such as planning, policy analysis, economics, environmental justice, education. Each ES student completes a year-long senior research project with the support of a mentor in a biological, physical, or interdisciplinary research area.

The academic advisor is available to answer questions about this major in the Rausser College of Natural Resources Office of Instruction & Student Affairs in 260 Mulford Hall. Visit the ES major website for more detailed information: http://nature.berkeley.edu/advising/majors/environmental-sciences

<table>
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<th>Research Opportunities ♦</th>
<th>College Honors Program ♦</th>
<th>Environmental &amp; Other Careers</th>
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In addition to Berkeley’s Undergraduate Research Apprenticeship Program (URAP), Rausser College students can also apply for faculty research projects through Sponsored Projects for Undergraduate Research (SPUR). Visit http://nature.berkeley.edu/undergraduate-research/spur for details.

Students with a GPA of 3.6 or higher may participate in the Rausser College Honors Program while completing their senior thesis. For more information, visit http://nature.berkeley.edu/advising/honors-program.

Graduates are well-prepared for careers in fields such as environmental consulting, education, health, or law; community, urban, or regional planning; and other related areas of environmentalism in public agencies, non-profit conservation organizations, and private companies. Graduates are well-qualified for a variety of graduate programs, including law school.

Getting a Degree

To earn a Bachelor of Science from U.C. Berkeley in Environmental Sciences, students must fulfill unit and GPA requirements, university and campus requirements, college requirements, and major requirements. Please see the major advisor for more details about the major requirements.

Unit and GPA Requirements

All students must complete a minimum of 120 units to graduate; 36 of these must be upper division, 30 of the upper division units must be Environmental Sciences units, 15 of the upper division units must be completed within the college. Students must maintain a 2.0 cumulative GPA, a 2.0 GPA in their ES major requirements, and not receive a grade below C- in their major requirements (lower and upper division courses).

University and Campus Requirements

- Entry Level Writing
- American History & Institutions
- American Cultures (if taken for a letter grade, this course may overlap with a breadth requirement)

College Requirements

- Two courses in Reading & Composition (8 units): R1A and R1B
- 15 upper division units must be completed in the College of Natural Resources (EEP, ERG, ES, ESPM, NST, PMB)
# Environmental Sciences Major Requirements

All courses for the major, including breadth requirements, must be taken for a letter grade.

## Lower Division Math & Science Requirements (7-8 courses):

Environmental Sciences majors must choose one of three concentrations: Biological, Physical, or Social Sciences. Students should choose a concentration based on their interests and/or intended research area.

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<tr>
<th>Physical Science</th>
<th>Biological Science</th>
<th>Social Science</th>
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<tbody>
<tr>
<td>□ Math 1A</td>
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<td>□ Math 1B</td>
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<td>□ Math 16B or Math 1B</td>
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<td>□ Chem 1A and 1AL</td>
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<td>□ Biology 11 and 11L or Bio 1B</td>
<td>□ 1 course from: IB 153, 154; ESPM C103, 111, 113, 114, 115B, 116B</td>
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- □ 1 course from: IB 153, 154; ESPM C103, 111, 113, 114, 115B, 116B
- □ Physics 7A
- □ Physics 7B (Math 53 recommended)
- □ Physics 8A

## Breadth Requirements (5 courses):

- □ ESPM Environmental Science Core
- □ ESPM Social Science Core
- □ Environmental Economics
- □ 1 course (3-4 units) in Arts & Literature, Historical Studies, or Philosophy & Values
- □ 1 course (3-4 units) in Social & Behavioral Sciences or Int’l Studies

Please note: Breadth courses may not be double counted for another major requirement except for American Cultures.

## Upper Division Requirements (8 courses, 30 units minimum):

The ES major requires completion of a year-long senior research project. The four courses below must be taken in this sequence beginning fall of junior year. Students who plan to study abroad or otherwise not continuously enroll at Berkeley for their junior and senior years should meet with the ES advisor.

- □ Statistics
- □ Intro to Methods of Environmental Science
- □ Senior Research Seminar (1st half)
- □ Senior Research Seminar (2nd half)
- □ Environmental Modeling*
- □ Human Environment Interactions
- □ Elective in Area of Concentration (3-4 units)
- □ Additional ES Elective (2-4 units)

*ESP 102C satisfies the modeling requirement if taken Spring 2016 or later. ESPM C183/EEP C183 satisfies the modeling requirement only if taken Spring 2015 or earlier.

Note: In the Academic Guide EEP courses will be listed with the code ENVECON, ERG courses will be listed as ENERES.

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