College Admission Requirements for Transfer Students
This major is offered by the College of Natural Resources.

PROGRAM

The Environmental Sciences (ES) major is administered by the Department of Environmental Science, Policy, and Management (ESPM). The major prepares students to deal with issues arising from the impact of human activities on natural systems. To address these problems, all ES students acquire strong backgrounds in math, biological sciences, and physical sciences.

Because this is an interdisciplinary major, students may choose to take upper division electives (if they satisfy pre-requisite requirements) in fields such as ecology, conservation biology, energy and resources, environmental health, toxicology, geology, hydrology, meteorology, geography, and engineering, or a social science field such as city planning, policy analysis, environmental economics and policy, environmental justice, and 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.

PREPARATION FOR TRANSFER AT THE JUNIOR LEVEL

Transfer applicants must complete the minimum admissions requirements by the end of the spring term preceding fall enrollment at Berkeley, and are encouraged to complete as many additional lower division requirements as possible. Exceptions are highly unlikely. NOTE: The ESPM Environmental Science Core and the ESPM Social Science Core requirements may be taken at UC Berkeley if no course is articulated at student's home institution.

Please pay particular attention to how courses from your community college articulate to UC Berkeley. If courses for a particular subject are articulated as a group (for example, a 3-course series at your college may articulate to a 2-course series at UC Berkeley), you will need to take all of the courses noted in order for the articulation to work. If you have questions about articulation, please contact the Office of Instruction and Student Affairs, College of Natural Resources at cnrteaching@berkeley.edu or call (510) 642-0542.

In general, students will be evaluated on:

- the strength of academic preparation and the completion of lower division requirements in biology, chemistry, and math
- GPA in the required courses
- cumulative GPA
- the personal statement
MINIMUM ADMISSIONS REQUIREMENTS

There are three areas of concentration within the Environmental Sciences major: Biological Sciences, Physical Sciences, or Social Sciences. Applicants should meet the requirements for one concentration.

In addition to the requirements below, students must also complete the Reading & Composition requirement.

IGETC Certification will satisfy both halves of the Reading & Composition requirement, the ESPM Social Science Core, and the Social & Behavioral Science and Humanities breadth courses required for the major.

BIOLOGICAL SCIENCES CONCENTRATION
Chemistry 1A & 1AL
Chemistry 3A & 3AL
Biology 1A & 1AL
Biology 1B
Math 16A (or Math 1A)
Math 16B (or Math 1B)
  Recommended:
    Physics 8A (or Physics 7A)
    Environmental Sciences, Policy, and Management 15
    Environmental Economics & Policy C1 (A course in micro-economics satisfies this requirement)

SOCIAL SCIENCE CONCENTRATION
Chemistry 1A & 1AL
Chemistry 1B (or Chemistry 3A & 3AL)
Biology 1A & 1AL and Biology 1B (or Biology 11 & 11L, with the upper division biology elective to be taken at Berkeley)
Math 16A (or Math 1A)
Math 16B (or Math 1B)
  Recommended:
    Physics 8A (or Physics 7A)
    Environmental Sciences, Policy, and Management 15
    Environmental Economics & Policy C1 (A course in micro-economics satisfies this requirement)

PHYSICAL SCIENCE CONCENTRATION
Chemistry 1A & 1AL
Chemistry 3A & 3AL
Biology 1A & 1AL and Biology 1B (or Biology 11 & 11L, with the upper division biology elective to be taken at Berkeley)
Math 1A
Math 1B
Physics 7A
Physics 7B
  Recommended:
Environmental Sciences, Lower Division B.S. (continued)
   Environmental Sciences, Policy, and Management 15
   Environmental Economics & Policy Cl (A course in micro-economics satisfies this requirement)

Note: We will accept AP credit for the following courses:

- AP Biology, with a score of 4 or 5 = Bio 1B, or Bio 11 & 11L
- AP Calculus AB, with a score of 3, 4, 5 = Math 1A or Math 16A
- AP Calculus BC, with a score of 3 or 4 = Math 1A or Math 16A
- AP Calculus BC, with a score of 5 = Math 1A/16A and Math 1B/16B
- AP Economics (Micro), with a score of 4 or 5 = Env Econ Cl/Econ C3
- AP Chemistry, with a score of 4 or 5 = Chemistry 1A & 1AL
- AP English Literature, with a score of 3 = Entry Level Writing requirement
- AP English Literature, with a score of 4 = First half of Reading & Composition (ENGLISH RIA)
- AP English Literature, with a score of 5 = Both halves of Reading & Composition (ENGLISH RIA and R1B)
- AP English Language, with a score of 3 = Entry Level Writing requirement
- AP English Language, with a score of 4 or 5 = First half of Reading & Composition (ENGLISH RIA)
- AP Environmental Science, with a score of 4 or 5 = ESPM Environmental Science Core

Please note that substituting AP scores for chemistry and biology coursework is accepted, but not recommended. Students who use AP scores for these requirements may struggle in subsequent coursework.

Please refer to the College of Natural Resources website for more information about substitutions for the English RIA and R1B requirements:
http://nature.berkeley.edu/handbook

For more information on this major:
Environmental Sciences:
https://nature.berkeley.edu/advising/majors/environmental-sciences

For more information on the College of Natural Resources:
http://nature.berkeley.edu

For more information on admission to UC Berkeley:
http://admissions.berkeley.edu

For more information on majors at UC Berkeley:
Berkeley Academic Guide: http://guide.berkeley.edu

READING & COMPOSITION
Students must complete Reading and Composition prior to transfer.
Courses comparable to Berkeley’s READING & COMPOSITION (R&C) 1A & 1B
Environmental Sciences, Lower Division B.S. (continued)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH R1A</td>
<td>Reading and Composition</td>
<td>(4)</td>
</tr>
<tr>
<td>OR</td>
<td>WR 1H College Writing 1 Honors</td>
<td>(4)</td>
</tr>
<tr>
<td>ENGLISH R1B</td>
<td>Reading and Composition</td>
<td>(4)</td>
</tr>
<tr>
<td>OR</td>
<td>WR 2H College Writing 2: Critical Thinking/Writing Honors</td>
<td>(4)</td>
</tr>
</tbody>
</table>

**BIOLOGY**

Biology 1A/1AL and Biology 1B satisfies the Biology requirement for **all three** concentrations.

Biology 11 & 11L satisfies the Biology requirement for the Physical and Social Science concentrations only. The student will be required to take an upper division ecology elective at UC Berkeley for the second half of the requirement.

**CHEMISTRY**

Chem 1A & 1AL and Chem 3A & 3AL will satisfy the Chemistry requirement for **all three** concentrations.

Chem 1A & 1AL and Chem 1B will satisfy the Chemistry requirement for the Social Sciences concentration only.
Environmental Sciences, Lower Division B.S. (continued)

CHEM 3A & Chemical Structure and Reactivity (3)
CHEM 3AL Organic Chemistry (2) | CHEM 12A Organic Chemistry (5)

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MATHEMATICS

Math 1A and Math 1B will satisfy the math requirement for all three concentrations.

Math 16A and Math 16B will satisfy the math series for the Biological and Social Science concentrations only.

<table>
<thead>
<tr>
<th>MATH 1A</th>
<th>Calculus</th>
<th>(4)</th>
<th>MATH 3A</th>
<th>Analytic Geometry and Calculus I (5)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OR MATH 3AH Analytic Geometry and Calculus I Honors (5)</td>
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<tr>
<td>MATH 1B</td>
<td>Calculus</td>
<td>(4)</td>
<td>MATH 3B</td>
<td>Analytic Geometry and Calculus II (5)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>OR MATH 3BH Analytic Geometry and Calculus II Honors (5)</td>
</tr>
<tr>
<td>MATH 16A</td>
<td>Analytic Geometry and Calculus</td>
<td>(3)</td>
<td>MATH 3A</td>
<td>Analytic Geometry and Calculus I (5)</td>
</tr>
<tr>
<td>MATH 16B</td>
<td>Analytic Geometry and Calculus</td>
<td>(3)</td>
<td>MATH 3B</td>
<td>Analytic Geometry and Calculus II (5)</td>
</tr>
</tbody>
</table>

PHYSICS

NOTE: It is highly recommended that you complete the Physics requirement prior to transfer. If an equivalent to the Physics 8 series is unavailable, students should complete the equivalent of the Physics 7 series.

Physics 7A and 7B satisfies the Physics requirement for the Physical Science concentration.

Physics 8A will satisfy the Physics requirement for the Biological and Social Science concentrations only. Physics 7A will also satisfy the Physics requirement for the Biological and Social Science concentrations.

| PHYSICS 7A | Physics for Scientists and Engineers (4) | PHYS 4A General Physics (4) |
| PHYSICS 7B | Physics for Scientists and Engineers (4) | PHYS 4B General Physics (4) |
| PHYSICS 8A | Introductory Physics | (4) NO COURSE ARTICULATED |
### ECONOMICS

Required for all concentrations, if articulated course offered.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ECON C3</td>
<td>Introduction to Environmental Economics and Policy</td>
<td>(4)</td>
</tr>
<tr>
<td>ENV 6</td>
<td>Environmental and Resource Economics</td>
<td>(3)</td>
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</table>

Same as: ENVECON C1

OR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 1</td>
<td>Introduction to Economics</td>
<td>(4)</td>
</tr>
<tr>
<td>ECON 1H</td>
<td>Principles of Economics - Micro</td>
<td>(3)</td>
</tr>
<tr>
<td>ECON 2H</td>
<td>Principles of Economics - Macro</td>
<td>(3)</td>
</tr>
</tbody>
</table>

OR

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<tr>
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</thead>
<tbody>
<tr>
<td>ECON 1H</td>
<td>Principles of Economics - Micro Honors</td>
<td>(3)</td>
</tr>
<tr>
<td>ECON 2H</td>
<td>Principles of Economics - Macro Honors</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**NOTE:** Berkeley's ECON 1 covers macro-economics and micro-economics.

Environmental Sciences requires only one course in micro-economics; thus, a course in micro-economics will satisfy the requirement. Macro-economics is optional for this major.

### ESPM ENVIRONMENTAL SCIENCE CORE COURSE

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPM 2</td>
<td>The Biosphere</td>
<td>(3)</td>
</tr>
<tr>
<td>ESPM 6</td>
<td>Environmental Biology</td>
<td>(3)</td>
</tr>
<tr>
<td>ESPM C10</td>
<td>Environmental Issues</td>
<td>(4)</td>
</tr>
<tr>
<td>ESPM 15</td>
<td>Introduction to Environmental Sciences</td>
<td>(3)</td>
</tr>
<tr>
<td>ESPM C46</td>
<td>Climate Change and the Future of California</td>
<td>(4)</td>
</tr>
</tbody>
</table>

### ESPM SOCIAL SCIENCE CORE COURSE

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESPM C11</td>
<td>Americans and the Global Forest</td>
<td>(4)</td>
</tr>
<tr>
<td>ESPM C12</td>
<td>Introduction to Environmental Studies</td>
<td>(4)</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Units</td>
</tr>
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<tr>
<td>ESPM C22AC</td>
<td>Fire: Past, Present and Future Interaction with the People and Ecosystems of California</td>
<td>(4)</td>
</tr>
<tr>
<td>ESPM 50AC</td>
<td>Introduction to Culture and Natural Resource Management</td>
<td>(4)</td>
</tr>
<tr>
<td>ESPM 60</td>
<td>Environmental Policy, Administration, and Law</td>
<td>(4)</td>
</tr>
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</table>

END OF MAJOR