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

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 Berkeley if no course is articulated at student's home institution.

Minimum Admissions Requirements:
Equivalent of:
   English R1A & English R1B
   Chemistry 1A & 1AL
   Chemistry 3A & 3AL
   Chemistry 3B & 3BL
   Biology 1A and 1AL
   Biology 1B
   Math 1A & Math 1B or Math 16A & Math 16B

NOTE: We will accept AP credit for the following requirements:
- AP Biology, with a score of 4 or 5 = Bio 1B
- 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 Chemistry, with a score of 4 or 5 = Chemistry 1A & 1AL
- AP English Literature, with a score of 3 = Subject A requirement
- AP English Literature, with a score of 4 = First half of Reading & Composition (ENGLISH R1A)
- AP English Literature, with a score of 5 = both halves of Reading & Composition (ENGLISH R1A and R1B)
- AP English Language, with a score of 3 = Subject A requirement
- AP English Language, with a score of 4 or 5 = First half of Reading & Composition (ENGLISH R1A)
- AP Environmental Science, with a score of 4 or 5 = ESPM Environmental Science Core
- AP Statistics, with a Score of 3, 4, 5 = Statistics 2

For more information:
MEB Student Academic Advisor
To: UC Berkeley, From: Santa Monica College, 18-19

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Molecular Environmental Biology, Lower Division B.S. (continued)
Office of Instruction and Student Affairs
College of Natural Resources
260 Mulford Hall
(510) 642-0542
email: cnrteaching@berkeley.edu

For more information on this major:
http://nature.berkeley.edu/advising/majors/molecular-environmental-biology

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

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READING & COMPOSITION
Course work comparable to Berkeley’s READING & COMPOSITION (R&C) R1A and R1B is
required.

Minimum admissions requirement.

<table>
<thead>
<tr>
<th>ENGLISH R1A</th>
<th>Reading and Composition</th>
<th>(4)</th>
<th>ENGL 1</th>
<th>Reading and Composition</th>
<th>(3)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>I</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ENGLISH R1B</th>
<th>Reading and Composition</th>
<th>(4)</th>
<th>ENGL 2</th>
<th>Critical Analysis and</th>
<th>(3)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Intermediate Composition</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>OR</td>
<td>ENGL 31 Advanced Composition</td>
<td>(3)</td>
</tr>
</tbody>
</table>

TWO COURSES IN CALCULUS CHOSEN FROM MATH 1A & 1B or MATH 16A & 16B (6-8 Units)
Select one of the following Calculus Series:

Minimum admissions requirement.

<table>
<thead>
<tr>
<th>MATH 1A</th>
<th>Calculus</th>
<th>(4)</th>
<th>MATH 7</th>
<th>Calculus 1</th>
<th>(5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AND</td>
<td></td>
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</tr>
<tr>
<td>MATH 1B</td>
<td>Calculus</td>
<td>(4)</td>
<td>MATH 8</td>
<td>Calculus 2</td>
<td>(5)</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 16A</td>
<td>Analytic Geometry and Calculus</td>
<td>(3)</td>
<td>MATH 7</td>
<td>Calculus 1</td>
<td>(5)</td>
</tr>
<tr>
<td>AND</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 16B</td>
<td>Analytic Geometry and Calculus</td>
<td>(3)</td>
<td>MATH 8</td>
<td>Calculus 2</td>
<td>(5)</td>
</tr>
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</table>

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CHEMISTRY
Courses must include a laboratory component.
**Molecular Environmental Biology, Lower Division B.S. (continued)**

Minimum admissions requirement.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry</td>
<td>3</td>
<td>CHEM 11</td>
<td>General Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1AL</td>
<td>General Chemistry Laboratory</td>
<td>1</td>
<td>CHEM 12</td>
<td>General Chemistry II</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 1B</td>
<td>General Chemistry</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 3A</td>
<td>Chemical Structure and Reactivity</td>
<td>3</td>
<td>CHEM 21</td>
<td>Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 3AL</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 3B</td>
<td>Chemical Structure and Reactivity</td>
<td>3</td>
<td>CHEM 22</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3BL</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
<td>CHEM 24</td>
<td>Organic Chemistry II</td>
<td>2</td>
</tr>
</tbody>
</table>

**BIOLOGY**

Minimum admissions requirement.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1A</td>
<td>General Biology Lecture (Cells, Genetics, Animal Form &amp; Function)</td>
<td>3</td>
<td>BIOL 21</td>
<td>Cell Biology and Evolution</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1AL</td>
<td>General Biology Laboratory</td>
<td>2</td>
<td>BIOL 22</td>
<td>Genetics and Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1B</td>
<td>General Biology (Plant Form &amp; Function, Ecology, Evolution)</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**4-8 UNITS PHYSICS**

PHYSICS 7A Physics for Scientists and Engineers | 4 | PHYSICS 21 Mechanics with Lab | 5 |
| PHYSICS 7B Physics for Scientists and Engineers | 4 | PHYSICS 22 Electricity and Magnetism with Lab | 5 |

**NOTE:** This institution may cover the topics in Berkeley's PHYSICS 7ABC series in a different order. Students who transfer before completing courses equivalent to the entire 7ABC series may need to enroll in Berkeley’s PHYSICS 49 to complete missing topics such as wave motion (7A) or heat (7B).

PHYSICS 8A Introductory Physics | 4 | PHYSICS 8 Calculus-Based Physics 1 with Lab | 4 |
| PHYSICS 8B Introductory Physics | 4 | PHYSICS 9 Calculus-Based Physics 2 with Lab | 4 |
Molecular Environmental Biology, Lower Division B.S. (continued)

ONE UC-TRANSFERABLE COURSE IN HUMANITIES

ESPM ENVIRONMENTAL SCIENCE CORE COURSE

Select one of the following:

ESPM 2  The Biosphere (3) | NO COURSE ARTICULATED

ESPM 6  Environmental Biology (3) | NO COURSE ARTICULATED

ESPM C10  Environmental Issues (4) | BIOL 9 Introduction to Environmental Biology (3)
Same as: LNS C30V

ESPM 15  Introduction to Environmental Sciences (3) | NO COURSE ARTICULATION

ESPM C46  Climate Change and the Future of California (4) | NO COURSE ARTICULATED

ESPM SOCIAL SCIENCE CORE COURSE

Select one of the following:

ESPM C11  Americans and the Global Forest (4) | NO COURSE ARTICULATED
Same as: LNS C30U

ESPM C12  Introduction to Environmental Studies (4) | NO COURSE ARTICULATED

ESPM 50AC  Introduction to Culture and Natural Resource Management (4) | NO COURSE ARTICULATED

ESPM 60  Environmental Policy, Administration, and Law (4) | NO COURSE ARTICULATED

END OF MAJOR