Guidelines by Major Effective during the 18-19 Academic Year

To: UC Berkeley
From: Berkeley City College

18-19 General Catalog Semester
18-19 General Catalog Semester

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====Molecular Environmental Biology, Lower Division B.S.====

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, or BIO 1A & 1AL
- 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: Berkeley City 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
e-mail: 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 (4)</th>
<th>ENGL 1A</th>
<th>Composition and Reading (4)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ENGLISH R1B</th>
<th>Reading and Composition (4)</th>
<th>ENGL 1B</th>
<th>Composition and Reading (4)</th>
</tr>
</thead>
</table>

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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 (4)</th>
<th>MATH 1B</th>
<th>Calculus (4)</th>
<th>MATH 16A</th>
<th>Analytic Geometry and Calculus (3)</th>
<th>MATH 16B</th>
<th>Analytic Geometry and Calculus (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AND</td>
<td>MATH 3A</td>
<td>Calculus I (5)</td>
<td>AND</td>
<td>MATH 3B</td>
<td>Calculus II (5)</td>
<td>OR</td>
<td>Calculus for Business (3)</td>
</tr>
<tr>
<td>OR</td>
<td>MATH 16A</td>
<td>Calculus for Business (3)</td>
<td>AND</td>
<td>MATH 16A</td>
<td>Calculus for Business (3)</td>
<td>AND</td>
<td>Social Sciences</td>
</tr>
</tbody>
</table>

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CHEMISTRY
Courses must include a laboratory component.

Minimum admissions requirement.

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**Molecular Environmental Biology, Lower Division B.S. (continued)**

<table>
<thead>
<tr>
<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>
</tr>
<tr>
<td>CHEM 1AL</td>
<td>General Chemistry Laboratory</td>
<td>(1)</td>
</tr>
<tr>
<td>CHEM 3A</td>
<td>Chemical Structure and Reactivity</td>
<td>(3)</td>
</tr>
<tr>
<td>CHEM 3AL</td>
<td>Organic Chemistry Laboratory</td>
<td>(2)</td>
</tr>
<tr>
<td>CHEM 3B</td>
<td>Chemical Structure and Reactivity</td>
<td>(3)</td>
</tr>
<tr>
<td>CHEM 3BL</td>
<td>Organic Chemistry Laboratory</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>
</tr>
</thead>
<tbody>
<tr>
<td>BIOLOGY 1A</td>
<td>General Biology</td>
<td>(3)</td>
</tr>
<tr>
<td>BIOLOGY 1AL</td>
<td>General Biology Laboratory</td>
<td>(2)</td>
</tr>
</tbody>
</table>

**4-8 UNITS PHYSICS**

(Physics 7A or 8A [plus Physics 7B or 8B, if pre-health])

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 7A</td>
<td>Physics for Scientists</td>
<td>(4)</td>
</tr>
<tr>
<td>PHYSICS 7B</td>
<td>Physics for Scientists</td>
<td>(4)</td>
</tr>
</tbody>
</table>

**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).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 8A</td>
<td>Introductory Physics</td>
<td>(4)</td>
</tr>
<tr>
<td>PHYSICS 8B</td>
<td>Introductory Physics</td>
<td>(4)</td>
</tr>
</tbody>
</table>

**ONE UC-TRANSFERABLE COURSE IN SOCIAL AND BEHAVIORAL SCIENCES**

**ONE UC-TRANSFERABLE COURSE IN HUMANITIES**

**ESPM ENVIRONMENTAL SCIENCE CORE COURSE**

Select one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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>
</tbody>
</table>
Molecular Environmental Biology, Lower Division B.S. (continued)

ESP M C10  Environmental Issues  (4)|NO COURSE ARTICULATED
    Same as: LNS C30V

ESP M 15  Introduction to  (3)|NO COURSE ARTICULATED
    Environmental Sciences

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

ESP M SOCIAL SCIENCE CORE COURSE
    Select one of the following:

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

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

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

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

END OF MAJOR