PHYSIOLOGY MAJOR, B.S – 2017-2018

To be admitted to full major status, students must fulfill the pre-biology course and grade-point average requirements as described in the **General Catalog**. At minimum, they must complete twelve designated courses from the Preparation for the Major with a 2.0 or higher UC grade-point average. Note: Hyphens indicate that an entire sequence must be completed as shown to fulfill an area requirement. A single course can satisfy only one requirement. Grades earned must meet the grade prerequisites for the full major.

**PREPARATION FOR THE MAJOR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units Yet to Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1A-AL-B-BL-C-CL or 2A-AC-B-BC-C-CC</td>
<td>15</td>
</tr>
<tr>
<td>MCDB 1A-1AL-1B, EEMB 2-3-3L, and either MCDB 1BL or EEMB 2L</td>
<td>16</td>
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<tr>
<td>(Transfer students must consult the advisor regarding selected topics to be covered in Z courses)</td>
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<tr>
<td>Chemistry 6AL-6BL (or 6BH) and 109A-B-C or 109AH-BH-CH</td>
<td>18</td>
</tr>
<tr>
<td>Mathematics 3A-B or 34A-B</td>
<td>8</td>
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<tr>
<td>One of the following: PSTAT 5LS or PSTAT 5A (Math 4A acceptable, but not recommended)</td>
<td>4 or 5</td>
</tr>
<tr>
<td>Physics 6A-AL-B-BL-C-CL</td>
<td>12</td>
</tr>
</tbody>
</table>

**UPPER-DIVISION MAJOR**

48 UD units are required in biological sciences, distributed as follows: 48

*Courses with an asterisk (*) are listed in more than one area, but they may be applied to only one area.*

A. **Core Curriculum:** One course required from each of the following categories:
   1. **Ecology:** EEMB 120
   2. **Evolution:** EEMB 131 (or Earth 121)
   3. **Genetics:** EEMB 129
   4. **Biometry:** EEMB 146

B. **Area of Concentration:** EEMB 143 or 154 (but not both) and 156 and 157

C. **Cellular Biology and Biochemistry Emphasis:** One course (or course sequence) required: one from C1 and one from C2.
   1. **Cell Biology:** MCDB 103
   2. **Biochemistry:** MCDB 108A-B or Chem 142A-B

D. **Biodiversity and Systematics Emphasis:** Two courses required from the following, including at least two laboratory courses (underlined): EEMB 106, 107-107L, 108, 111, 112, 113-113L, 116, 119, 127-127L, 136-136L (or Earth 111-111L), 144-144L

E. **Electives:** Additional UD courses offered in EEMB or MCDB or from Areas B, C or D above to bring the total UD units in the major to 48. Recommended courses: EEMB 163, 165; MCDB 111, 151

*Notes: Laboratory courses are underlined in areas A-E above. The following courses do not count toward upper division major credit: EEMB 181, 182, 183, 184 (except by petition) and 189; MCDB 182, 183, 184, 194MD, 194KF, 194KK. In addition, no more than 8 units of the following courses combined will apply: EEMB 184-199; MCDB 185-199. Finally, a minimum of 32 units must be completed through courses within the EEMB Department.

**MAJOR REGULATIONS**

**PREREQUISITES**
Check the **General Catalog** for the prerequisites to all listed courses.

**P/NP GRADING OPTION**
Not allowed for major courses (Prep or UD), including courses applied to the major from other departments, except up to 8 units of courses that do not allow letter grades.

**SUBSTITUTIONS**
At least 20 UD units in major while in residence at UCSB.

**RESIDENCE REQUIREMENTS**
- At least 2.0 overall UC average in all upper-division major courses and all courses (Prep and UD) for the major, including courses in excess of minimum requirements.

**G.P.A. REQUIREMENTS**

**DOUBLE MAJORS**
With the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors.