PHYSIOLOGY MAJOR, B.S – 2021-2022

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 Description</th>
<th>Units 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-B, EEMB 2-3, and either (MCDB 1LL and EEMB 2LL) or (MCDB 1AL and MCDB 1BL or EEMB 2L, and EEMB 3L)</td>
<td>16</td>
</tr>
<tr>
<td>(Transfer students must consult the advisor regarding selected topics to be covered in Z courses)</td>
<td></td>
</tr>
<tr>
<td>Chemistry 6AL and 109A-B-C or 109AH-BH-CH</td>
<td>15</td>
</tr>
<tr>
<td>Mathematics 3A-B or 34A-B</td>
<td>8</td>
</tr>
<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 103A, 106, 107-107L, 108, 111, 112, 113-113L, 116, 119, 127-127L, 136-136L (or Earth 111-111L), 144-144L, 150A

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: The following courses do not count toward upper division major credit: EEMB 182, 183, 184 and 189; MCDB 183, 184, 194KF, 194MO, 194MR. In addition, no more than 8 units of the following courses combined will apply: EEMB 185-199; 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:** In the major requirements permissible only by petition to the department chair and dean.

**RESIDENCE REQUIREMENTS:** At least 20 UD units in major while in residence at UCSB.

**G.P.A. REQUIREMENTS:** At least 2.0 overall UC average in all upper-division major courses and all courses (Prep and UD) for the major.

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