

**PHYSIOLOGY MAJOR, B.S – 2016-2017**

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.

**PREPARATION FOR THE MAJOR**

**UNITS YET TO COMPLETE**

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

**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, 163.....
- 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**..... 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, including courses in excess of minimum 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.