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College of Letters and Science
University of California, Santa Barbara

Note: See Major Progress Check on GOLD
for full list of all degree requirements.

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

UNITS TO COMPLETE

Chemistry 1A-AL-B-BL-C-CL or 2A-AC-B-BC-C-CC	15
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)	16
(Transfer students must consult the advisor regarding selected topics to be covered in Z courses)	
Chemistry 6AL and 109A-B-C or 109AH-BH-CH	15
Mathematics 3A-B or 34A-B	8
One of the following: PSTAT 5LS or PSTAT 5A (Math 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, ~~157B, 157C~~
- 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.

COMPLETE 3 COURSES FROM AREA B.