

ECOLOGY & EVOLUTION 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)	
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

**Organic chemistry may be required by some graduate or professional schools. Consult your advisor.*

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 or MCDB 101A
 - 4. Biometry: EEMB 146
- B. **Area of concentration:** Three courses required from the following, including at least one each from B1 and B2:
 - 1. Ecology: EEMB 119* (or Env S 119*), 128 (or Env S 128), 130C, 140*, 142A, 143, 147, 148, 152 (or Env S 152), 153, 158, 159, 168, 171 (or Env S 171)
 - 2. Evolution: EEMB 102, 108*, 130, 136* (or Earth 111*), 137 (or Earth 141), 138, 180*
- C. **Quantitative Biology Emphasis:** One course (or course sequence) required from the following:
 - EEMB 174, 179, 180*, MCDB 170
- D. **Biodiversity and Systematics Emphasis:** Three courses (or course sequences) required from the following, including at least two laboratory courses (underlined):
 - EEMB 103A, 106, 107-107L, 108*, 109 (or Earth 148), 111, 112, 113-113L, 116, 118, 119*, 127, 127L, 133, 136* (or Earth 111*), 136L (or Earth 111L), 140*, 144, 144L, 150A, 163
- E. **Electives:** Additional UD courses offered in EEMB, or from Areas B-D above, or from any of the following to bring the total UD units in the major to 48: Anth 121; Earth 144; Geog 167; MCDB 101AH, 101B, 131, 132
 Recommended courses EEMB 142AL

Notes: Laboratory courses are underlined in areas A-E above. The following courses do not count toward upper-division major credit: EEMB 182, 183, 184, and 189. In addition, no more than 8 units of the following courses combined will apply: EEMB 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.