

ECOLOGY & EVOLUTION MAJOR, B.S. – 2024-2025

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 or combination 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-B-C and 2AL-BL (or 1A-AL-B-BL-C-CL or 2A-AC-B-BC-C-CC)	15
MCDB 1A-B, EEMB 2-3, MCDB 1LL and EEMB 2LL	17
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), 140*, 142A, 143, 147, 148, 152 (or Env S 152), 153, 158, 159, 168, 171 (or Env S 171)
 - 2. Evolution: EEMB 101, 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, 128, 133 (or ENV S 133), 136* (or Earth 111*), 136L (or Earth 111L), 140*, 140L, 144, 144L, 145, 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.
- 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.