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

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 MCD 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, 169, 168, 171 (or Env S 171) ........................................................................
152 (or Env S 152), 153, 158, 169, 168, 171 (or Env S 171) ........................................................................
152 (or Env S 152), 153, 158, 169, 168, 171 (or Env S 171) ........................................................................
152 (or Env S 152), 153, 158, 169, 168, 171 (or Env S 171) ........................................................................
152 (or Env S 152), 153, 158, 169, 168, 171 (or Env S 171) ........................................................................
152 (or Env S 152), 153, 158, 169, 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):


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.