

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

**BIOLOGICAL SCIENCES MAJOR, B.A. – 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* and *Pre-Biological Sciences Major Sheet*. At minimum, they must complete twelve designated courses from the Preparation for the Major with a 2.0 or higher UC grade-point average. Grades earned must meet grade prerequisites for the full major.

**Note:** Hyphens indicate that an entire sequence must be completed as shown to fulfill an area requirement.

**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 <u>and</u> 109A-B or 109AH-BH .....	11 _____
Mathematics 3A-B or 34A-B .....	8 _____
One of the following: PSTAT 5LS or PSTAT 5A or Math 4A .....	4 or 5 _____
Physics 6A-AL-B-BL .....	8 _____

**UPPER-DIVISION MAJOR**

36 UD units: ..... 36 \_\_\_\_\_

*Courses with an asterisk (\*) are listed in more than one area, but they may be applied to only one area.*

One course or course sequence is required in each of the areas below (A through E)

- A. Genetics: MCDB 101A (MCDB 101B is strongly recommended) or EEMB 129 .....
- B. Physiology: MCDB 111, 151\*; EEMB 143, 156, 157, 157B, 157C, 165 .....
- C. Developmental and Cell Biology or Biochemistry and Molecular Biology:  
 MCDB 103, 108A (or W 108A), 110, 112, 118, 133, 134, 135, 146, 151\*, 152, 153.....
- D. Ecology or Evolution: EEMB 102, 108\*, 109 (or Earth 148), 113-113L\*, 119, 120, 127\*, 128, 130,  
 130C, 131 (or Earth 121), 136-136L (or Earth 111-111L), 137 (or Earth 141), 138, 140, 142A, 147,  
 148, 153, 155CC, 158, 159, 168, 169, 171 (or Env S 171), 179, 180.....
- E. Biodiversity and Systematics: EEMB 103A, 106, 107, 108\*, 111, 112, 113-113L\*, 116, 118, 127\*,  
 133 (or Env S 133), 145, 150A, 163; MCDB 131, 139 .....
- F. Electives: Additional UD courses offered in EEMB and MCDB to bring the total to 36 units.....

**Note:** *The following courses do not count toward upper-division major credit: EEMB 182, 183, 184, 189; MCDB 183, 184, 194KF, 194MO, 194MR. In addition, no more than 4 units of the following courses combined will apply: EEMB 185-199; MCDB 185-199.*

**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 4 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.