

**AQUATIC BIOLOGY MAJOR, B.S. – 2019-2020**

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 YET 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 1AL and MCDB 1BL or EEMB 2L, and EEMB 3L) or (MCDB 1LL and EEMB 2LL).....	16
(Transfer students must consult the advisor regarding selected topics to be covered in Z courses)	
Chemistry 6AL-6BL (or 6BH) <u>and</u> 109A-B or 109AH-BH .....	14
Mathematics 3A-B <u>or</u> 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 or MCDB 101A .....
  - 4. Biometry: EEMB 146 .....
- B. **Area of Concentration:** EEMB 142A-B-C.....
- C. **Aquatic Biology Emphasis:** Three courses required from the following, including at least two laboratory courses (underlined): EEMB 106, 112, 116, 142AL, 142BL, 142CL, 143, 144, 144L, 147, 148, 150A, 152 (or Env S 152), 153\*, 159, 163, 165, 170.....
- D. **Physical Environment Emphasis:** One course required from the following: EEMB 153\*; Earth 164B, 168 (or Env S 168); Geog 104, 112, 116, 144, 162, 163, 165.....
- E. **Electives:** Additional UD courses offered in EEMB or MCDB or from Areas C and D above to bring the total UD units in the major to 48. Recommended courses: EEMB 143, 176-176L, 179.....

*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 (except by petition), and 189; MCDB 183, 184, 194KF. In addition, no more than 8 units of the following courses combined will apply: EEMB 184-199; MCDB 185-199. Finally, a minimum 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 any major course (Prep or UD major), 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.