

CELL AND DEVELOPMENTAL 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* and *Pre-Biological Sciences Major Sheet*. At the 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 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-C or 109AH-BH-CH	18 _____
Mathematics 3A-B or 34A-B	8 _____
One course from: PSTAT 5LS or 5A or Math 4A	4 or 5 _____
Physics 6A-AL-B-BL-C-CL	12 _____

UPPER DIVISION MAJOR

48 UD units required, distributed as follows: 48 _____

A minimum of 32 UD units must be completed through courses within the MCDB department.

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

- A. Genetics: MCDB 101A-B _____
- B. Biochemistry: MCDB 108A (or W 108A) and 108B-C..... _____
- C. Cell Biology: MCDB 103
- D. Developmental Biology: Select two courses from: MCDB 112, 118, 153
- E1. One course from MCDB 103L*, 112L*
- E2. One course or course sequence from: MCDB 101L, 103L*, 109L, 112L*, 126A-AL, 126B-BL,
132-132L, 133-133L, 140L, 161L
- F. Electives: Additional UD courses in MCDB, EEMB, or Chemistry 141, 161 to bring unit total to 48..... _____

Note: Students are encouraged to take MCDB 135 and/or MCDB 146 within their elective requirements.

The following courses do not count toward upper-division major credit:

EEMB 182, 183, 184, 189; MCDB 183, 184, 194KF

In addition, no more than 8 units of the following courses combined will apply to the major:

EEMB 185-199; MCDB 185-199. BMSE may be accepted by petition only.

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.