

**CELL AND DEVELOPMENTAL BIOLOGY MAJOR, B.S – 2016-2017**

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-1AL-1B, EEMB 2-3-3L, and either MCDB 1BL or EEMB 2L.....	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 3C 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:** *The following courses do not count toward upper-division major credit:*

EEMB 181, 182, 183, 184, 189; MCDB 121, 182, 183, 184, 194KF, 194KK, 194MD

*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, including courses in excess of minimum requirements.
- DOUBLE MAJORS..... With the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors.