

**CELL AND DEVELOPMENTAL BIOLOGY MAJOR, B.S – 2023-2024**

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 course sequence or combination 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, MCDB 1LL and EEMB 2LL .....	16 _____
Chemistry 6AL and 109A-B-C or 109AH-BH-CH .....	15 _____
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\*, 126 and 126AL (or 126A-AL), 126B-BL, 132-132L, 133-133L, 140L, 161L .....
- F. Electives: Additional UD courses in MCDB, EEMB, Chemistry 141, 161, or Psychology 162 to bring unit total to 48 .....

**Note:** Students are encouraged to take MCDB 135 and/or MCDB 146 and a course in evolution (such as EEMB 102, 131, or 180), within their elective requirements.

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

EEMB 182, 183, 184, 189; MCDB 183, 184, 194D, 194KF, 194MO, 194MR

*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.
- 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.