

**MOLECULAR & CELLULAR BIOLOGY MAJOR, B.S. – 2024-2025**

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.

**Notes:** Hyphens indicate an entire sequence or combination must be completed as shown to fulfill an area requirement. A single course can satisfy only one requirement.

**PREPARATION FOR THE MAJOR**

**UNITS TO COMPLETE**

Chemistry 1A-B-C and 2AL-BL (or 1A-AL-B-BL-C-CL or 2A-AC-B-BC-C-CC) .....	15 _____
MCDB 1A-B, EEMB 2-3, and MCDB 1LL and EEMB 2LL .....	17 _____
Chemistry 6AL and 109A-B-C or 109AH-BH-CH .....	15 _____
Mathematics 3A-B or 34A-B .....	8 _____
One of the following: PSTAT 5A or PSTAT 5LS or Math 4A .....	4 or 5 _____
Physics 6A-AL-B-BL-C-CL .....	12 _____

**UPPER-DIVISION MAJOR**

48 upper division units required, distributed as follows ..... 48 \_\_\_\_\_

**NOTE: A minimum of 44 upper division units must be completed through courses within the MCDB Department.**

I. A. Genetics: MCDB 101A-B .....	8 _____
B. Biochemistry: MCDB 108A-B .....	8 _____
C. Biochemistry-Computational & Systems Biology: MCDB 108C .....	4 _____
D. One Cell Biology course: MCDB 103, 126B, 131, or 135 .....	4 _____
II. One Laboratory or course-lab sequence: MCDB 101L, 103L, 109L, 112-112L, 126-126AL, 126B-126BL, 131-131L, 132-132L, 133-133L, 140L .....	4-8 _____
III. Electives: Additional UD units within MCDB; EEMB 131, 144, 145, 146, 150A; Chemistry 112A or 113A (not both), 141, 143, 145, 147, 161, 162A, 162B; Psychology 115, 133, 134, 137, 162, to bring the unit total to 48.....	16-20 _____

**Only one course outside of MCDB will apply. Non MCDB courses may require additional prerequisites.**

**NOTES:** The following courses do not count toward upper-division major credit: MCDB 110, 183, 184, 194D, 194KF, 194MR. In addition, no more than 8 units of the following courses combined will apply to the major: MCDB 185-199. Students cannot double major with the Bio B.A. or B.S. nor have more than one emphasis within MCDB.

**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 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.