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Note: See Major Progress Check on GOLD for full list of all degree requirements.

## MOLECULAR & CELLULAR BIOLOGY MAJOR, B.S. – 2025-2026 MICROBIOLOGY EMPHASIS

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	
Chemistry 6AL and 109A-B-C or 109AH-BH-CH	15
Mathematics 3A-B or 34A-B	
One of the following: PSTAT 5A or PSTAT 5LS or Math 4A	4 or 5
Physics 6A-AL-B-BL-C-CL	12
<u>UPPER-DIVISION MAJOR</u>	
48 upper division units required, distributed as follows	48
NOTE: A minimum of 42 upper division units must be completed through courses within the	he 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, or 135	4
II. 1. Microbiology: MCDB 131-131L	133*, 134 (recommended) 9-14
III. Additional units from the following to bring the total in the UD major to 48: MCDB 101 (or W 111), 111H, 133H, 134H, 135, 135H, 140L, 170, 170H, 172, 172H, 194BG, 197, 16 units of MCDB 194BG, 197, 198, and 199 combined can be applied); EEMB 111H, 144	198, 199 (a maximum of
<b>NOTES:</b> *Students must complete either MCDB 132 or 133 and are encouraged to take both Students cannot double major with the Bio B.A. or B.S. nor have more than one em	
MAJOR REGULATIONS	
PREREQUISITES	rrses applied to the major from other ow letter grades. ne department chair and dean.

DOUBLE MAJORS ...... With the approval of each department chairperson, up to a total of 8 units may be applied

simultaneously to both UD majors.