DEPARTMENT OF MOLECULAR, CELLULAR, & DEVELOPMENTAL BIOLOGY Name_____Date____Perm #____

3320 LIFE SCIENCES AND TECHNOLOGY BLDG.—PHONE: 805-893-5191

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

http://www.lifesci.ucsb.edu

College of Letters and Science University of California, Santa Barbara

MOLECULAR & CELLULAR BIOLOGY MAJOR, B.S. – 2024-2025 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	
Mathematics 3A-B or 34A-B	
One of the following: PSTAT 5A or PSTAT 5LS or Math 4A	
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 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	
2. Three courses from the following, including at least two MCDB courses: MCDB 132*	
<u>or</u> 136H, 138 (or W 138); EEMB 111, 144, 145, 150A	
3. One lab from: MCDB 132L, 133L	3-4
III. Additional units from the following to bring the total in the UD major to 48: MCDB 10	1AH, 101BH, 101L, 111
(or W 111), 111H, 133H, 134H, 135, 135H, 140L, 170, 170H, 172, 172H, 194BG, 197,	
6 units of MCDB 194BG, 197, 198, and 199 combined can be applied); EEMB 111H, 1	44L 1-7
NOTES: *Students must complete either MCDB 132 or 133 and are encouraged to take bot	h.
Students cannot double major with the Bio B.A. or B.S. nor have more than one en	mphasis within MCDB.
MAJOR REGULATIONS	
PREREQUISITES Check the General Catalog for the prerequisites to all liste	ed courses.
P/NP GRADING OPTION Not allowed for major courses (prep or UD), including co	11
departments, except up to 8 units of courses that do not al	<u> </u>
SUBSTITUTIONS	
G.P.A REQUIREMENTS At least 2.0 overall UC average in all upper-division major for the major.	or courses and all courses (Prep and UL
DOUBLE MAJORS With the approval of each department chairperson, up to	a total of 8 units may be applied
TI	√ T. T.

simultaneously to both UD majors.