DEPARTMENT OF MOLECULAR, CELLULAR, & DEVELOPMENTAL BIOLOGY Name

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

http://www.lifesci.ucsb.edu

College of Letters and Science University of California, Santa Barbara

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

MOLECULAR & CELLULAR BIOLOGY MAJOR, B.S. – 2024-2025 CELL AND DEVELOPMENTAL BIOLOGY 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	17
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: Courses with an asterisk (*) are listed in more than one area, but they may be applied to	only one area.
I. A. Genetics: MCDB 101A-B	8
B. Biochemistry: MCDB 108A-B	
C. Biochemistry-Computational & Systems Biology: MCDB 108C	
D. Cell Biology: MCDB 103	4
II. 1. Three courses from the following: MCDB 112, 118, 135, 146, 153	12
2A. One Cell or Developmental Lab: MCDB 103L* or 112L* (should not be taken concurren	
2B. One Laboratory or course-lab sequence from: MCDB 101L, 103L*, 109L, 112L*(recommendation)	mended), 126-126AL,
126B-126BL, 132-132L, 133-133L, 140L, 3 units of either 197 or 199	3-8
III. Additional units within MCDB or from the following to bring the total upper-division units	in the major to 48
Chemistry 141, 161; EEMB 127, 131, 146, 157A; Psychology 162	
Courses outside of MCDB may require additional prereqs within their own departments.	
NOTES: The following courses do not count toward upper-division major credit: MCDB 110. 1	83 184 194D 194KF 194MF

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.
~	Not allowed for major courses (prep or UD), including courses applied to the major from other
1711 GRUDING OF FIGURE	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.
	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.