## DEPARTMENT OF MOLECULAR, CELLULAR, & DEVELOPMENTAL BIOLOGY Name 3320 LIFE SCIENCES AND TECHNOLOGY BLDG.—PHONE: 805-893-5191 Date Perm#

http://www.lifesci.ucsb.edu College of Letters and Science University of California, Santa Barbara Note: See Major Progress Check on GOLD for full list of all degree requirements.

## **MOLECULAR & CELLULAR BIOLOGY MAJOR, B.S. – 2024-2025** PHARMACOLOGY 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	
Physics 6A-AL-B-BL-C-CL	12
UPPER-DIVISION MAJOR	
48 upper division units required, distributed as follows	48
I. A. Genetics: MCDB 101A-B	8
B. Biochemistry: MCDB 108A-B	
C. Biochemistry-Computational & Systems Biology: MCDB 108C	
D. One Cell Biology course: MCDB 103, 131, or 135	4
II. 1. Pharmacology: MCDB 126 and 126B	9
2. Pharmacology Lab: Select two: MCDB 126AL, 126BL, 3 units of either 197 or 199	
3. Human Physiology: MCDB 111	4
III. Additional units within MCDB or from the following to bring the total upper-division unit	ts in the major to 48:
EEMB 111; Chemistry 141, 161, 162A, 162B; Psychology 115, 133, 134, 137, 162	· ·
Courses outside of MCDB will likely require additional prerequisites within their own d	
NOTES: The following courses do not count toward upper-division major credit: MCDB 110. In addition, no more than 8 units of the following courses combined will apply to the Students are encouraged to take MCDB 187 (Pharmacology Colloquium). It is reco and Writing 109ST (Writing for Sci.) prior to enrolling in MCDB 126-B-AL-BL.	e major: MCDB 185-199.

and Writing 109ST (Writing for Sci.) prior to enrolling in MCDB 126-B-AL-BL. 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.