DEPARTMENT OF MOLECULAR, CELLULAR, & DEVELOPMENTAL BIOLOGY
3320 LIFE SCIENCES AND TECHNOLOGY BLDG.—PHONE: 805-893-5753
http://www.lifesci.ucsb.edu
College of Letters and Science
University of California, Santa Barbara

Name_____
Date_____ Perm #_____

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

MOLECULAR & CELLULAR BIOLOGY MAJOR, B.S. – 2026-2027
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 eleven 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_____

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, 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 ……..……... 7 or 8_____
3. Human Physiology: MCDB 111…… 4_____

III. Additional units within MCDB or from the following to bring the total upper-division units in the major to 48:
EEMB 111; Chemistry 141, 161, 162A, 162B; Psychology 115, 133, 134, 137, 162 ……..... 3-4_____
Courses outside of MCDB will likely require additional prerequisites within their own departments.

NOTES: The following courses do not count toward upper-division major credit: MCDB 110, 183, 184, 194D, 194KF, 194MP, 194MR. In addition, no more than 8 units of the following courses combined will apply to the major: MCDB 185-199.
Students are encouraged to take MCDB 187 (Pharmacology Colloquium). It is recommended to take MCDB 111 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.