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College of Letters and Science  
 University of California, Santa Barbara

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

**MICROBIOLOGY MAJOR, B.S. – 2023-2024**

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.

Note: Hyphens indicate that an entire course sequence or combination must be completed as shown to fulfill an area requirement.

**PREPARATION FOR THE MAJOR**

**UNITS TO COMPLETE**

Chemistry 1A-AL-B-BL-C-CL (or 2A-AC-B-BC-C-CC).....	15
MCDB 1A-B, EEMB 2-3, MCDB 1LL and EEMB 2LL .....	16
Chemistry 6AL and 109A-B-C or 109AH-BH-CH .....	15
Mathematics 3A-B or 34A-B.....	8
One of the following: PSTAT 5LS or 5A or Math 4A .....	4 or 5
Physics 6A-AL-B-BL-C-CL.....	12

**UPPER-DIVISION MAJOR**

48 UD units required, distributed as follows: ..... 48

I. Core Courses:

- A. Genetics: MCDB 101A-B .....
- B. General Microbiology: MCDB 131-131L.....
- C. Bacterial Pathogenesis: MCDB 132-132L .....
- D. Biochemistry: MCDB 108A (or W 108A) and 108B-C.....
- E. Virology: MCDB 134.....
- F. Immunobiology and Medical Immunology:  
 MCDB 133 (133L strongly recommended) or 138 (or W 138).....

II. Additional units from the following to bring the total in the UD major to 48:

MCDB 101AH, 101BH, 101L, 108AH, 111, 111H, 133H, 133L, 134H, 135, 135H, 140L, 170, 172, 194BG, 197, 199 (a maximum of 4 units of MCDB 194BG, 197 and 199 combined can be applied);  
 EEMB 111, 111H, 144, 145, either 144L or 150A (not both) .....

**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.