

**MICROBIOLOGY MAJOR, B.S. – 2016-2017**

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 an entire sequence must be completed to fulfill an area requirement.

**PREPARATION FOR THE MAJOR****UNITS YET TO COMPLETE**

Chemistry 1A-AL-B-BL-C-CL (or 2A-AC-B-BC-C-CC)..... 15 \_\_\_\_\_

MCDB 1A-1AL-1B, EEMB 2-3-3L, and either MCDB 1BL or EEMB 2L..... 16 \_\_\_\_\_

(Transfer students must consult the advisor regarding selected topics to be covered in Z courses)

Chemistry 6AL-6BL (or 6BH) and 109A-B-C or 109AH-BH-CH ..... 18 \_\_\_\_\_

Mathematics 3A-B or 34A-B ..... 8 \_\_\_\_\_

One of the following: PSTAT 5LS or 5A or Math 3C 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, 101L, 108AH, 108AL, 111, 111H, 133H, 133L, 134H, 135, 135H, 140L, 194BG, 197, 199 (a maximum of 4 units of MCDB 194BG, 197 and 199 combined can be applied); EEMB 111, 111H, 134, 144 ..... \_\_\_\_\_

**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.**RESIDENCE REQUIREMENTS** ..... At least 20 UD units in major while in residence at UCSB.**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, including courses in excess of minimum requirements.**DOUBLE MAJORS** ..... With the approval of each department chairperson, up to a total of 8 units may be applied simultaneously to both UD majors.