MICROBIOLOGY MAJOR, B.S. – 2006-2007

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. At minimum, they must complete twelve designated courses from the Preparation for the Major with a 2.0 or higher UC grade-point average.

**Note:** Hyphens indicate an entire sequence must be completed to fulfill an area requirement.

### PREPARATION FOR THE MAJOR

- Chemistry 1A-AL-BL-C-CL (or 2 series) .......................................................... 12
- MCDB 1A-AL-1B, EEMB 2-3-3L, and either MCDB 1BL or EEMB 2L .................. 15
  (Transfer students must consult the advisor regarding selected topics to be covered in Z courses)
- Chemistry 6A-B and 109A-B-C .......................................................... 16
- Mathematics 3A-B or 34A-B .................................................................. 8
- One of the following: PSTAT 5A or EEMB 30 or Math 3C ............................. 4 or 5
- Physics 6A-AL-BL-C-CL .................................................................. 12

### UPPER-DIVISION MAJOR

49 UD units required, distributed as follows: .......................................................... 49

**I. Core Courses:**
- A. Genetics: MCDB 101A-B ..................................................................
- B. General Microbiology: MCDB 131-131L ...........................................
- C. Bacterial Pathogenesis: MCDB 132-132L ...........................................
- D. Biochemistry: MCDB 108A-B-C ......................................................
- E. Virology: MCDB 134 ....................................................................
- F. Immunobiology: MCDB 133 (133L strongly recommended) ...........

**II. Additional units from the following to bring the total in the UD major to 49:**
- MCDB 108AH, 108AL, 133H, 133L, 135,138, 139, 140L, 199 (no more than 2 units); EEMB 111, 134 .......................................................... ..........................

**NOTE:** Students are encouraged to select their elective courses from within one of the tracks below:
- A. General Microbiology: MCDB 108AL, 133L, 138; EEMB 134
- B. Bio-Medical Sciences: MCDB 108AL, 133L, 138, 139; EEMB 111
- C. Genetic Engineering: MCDB 108AL, 133L, 140L

### 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.