

**CALIFORNIA STATE UNIVERSITY, STANISLAUS  
DEPARTMENT OF BIOLOGICAL SCIENCES**

**MICROBIOLOGY CONCENTRATION**

Students wishing to have a Microbiology concentration may do so by completing all the requirements for a major in biological sciences. To fulfill the requirements of the Microbiology concentration, a minimum of 16 upper division units must be completed within the concentration. The following courses or equivalent are:

Complete the following required courses (5 units):

- MBIO 3010 Bacteriology, 3 units
- MBIO 3032 Bacteriology Laboratory, 2 units

Select elective courses listed below to complete the concentration:

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|--|---|
| BIO 4100 Immunology, 3 units                       | MBIO 4600 Food Microbiology, 3 units          |
| BOTY 3500 Introductory Plant Pathology, 4 units    | MBIO 4700 Host Parasite Interactions, 3 units |
| ENTO 4330 Medical & Veterinary Entomology, 4 units | MBIO 4950 Selected Topics, 1-4 units          |
| MBIO 4300 Medical Microbiology, 4 units            | ZOOL 4440 General Parasitology, 4 units       |

**A SAMPLE PROGRAM FOR THE B.S. DEGREE IN THE BIOLOGICAL SCIENCES**

FALL SEMESTER	WINTER TERM	SPRING SEMESTER
<b>Freshman Year</b>		
	Electives.....4	
BIOL 1050.....4		BIOL 1150.....4
CHEM 1100.....5		CHEM 1110.....5
MATH or G.E.		MATH or G.E.
Electives.....4-5		Electives.....4-5
Total Units 13-14		Total Units 13-14
<b>Sophomore Year</b>		
	Electives....4	
BIOL 3310.....3		BIOL 3350.....3
PHYS 2100 or		PHYS 2110 or
CHEM 3010, 3012...4-5		CHEM, PHYS or
G.E. Electives.....6		Math Electives.....4-5
		G.E. Electives.....6
Total Units 13-14		Total Units 13-14
<b>Junior Year</b>		
	Electives....4	
Animal or Plant		Animal or Plant
Science.....4		Science.....4
Biol. Sci. Elective...4-5		Biol. Sci. Electives.....6
CHEM 3010, 3012 or		PHYS 2110 or CHEM
PHYS 2100.....4-5		Electives.....4-5
Total Units 12-14		Total Units 14-15
<b>Senior Year</b>		
	Electives....4	
Ecol. or Physiol.....4		Ecol. or Physiol.....4
Biol. Sci. Elective.....4		Electives.....9
G.E. Electives.....3		
Elective.....3		
Total Units 14		Total Units 13

Refer to the current university catalog for General Education (G.E.) and Math requirements. Many professional schools require a full year of calculus.