

Department of Biological Sciences
 California State University, East Bay
 510-885-3471



B.S. Degree in Biological Sciences
Microbiology/Biomedical Laboratory Science Option

Physical Sciences and Mathematics Core

		<u>Units</u>
Chem 1101, 1102, 1103	General Chemistry (5 units each)	15
Chem 3301, 3302, 3303	Organic Chemistry (5 units each)	15
Chem 4411, 4412	General Biochemistry (4 units each)	8
Math 1304	Calculus I	4
Phys 2701, 2702, 2703	Introductory Physics (4 units each)	12
Stat 3031	Statistical Methods in Biology	4

Biology Core Classes

Biol 1401	Cell and Molecular Biology	5
Biol 1402	Plant Biology	5
Biol 1403	Animal Biology	5
Biol 3121	Principles of Genetics	5
Biol 3151	Principles of Animal Physiology	5
Biol 3405	Microbiology	6

Microbiology Core Classes (16 units minimum)

Biol 3430*	Hematology	4
Biol 3441	Biomedical Parasitology	4
Biol 4142	Microbial Symbiosis	4
Biol 4147	Molecular Microbiology	6
Biol 4340	Environmental Microbiology	4
Biol 4405	Microbial Physiology and Biochemistry	4
Biol 4413*	Medical Microbiology	6
Biol 4430*	Immunology	4
Biol 4435	Water Quality and Human Health	4
Biol 4441	Principles of Virology	4
Biol 4455	Molecular Cell Biology	4
Chem 2200*	Quantitative Analysis	5

* Note that the 4 asterisked classes are mandatory prerequisites for Clinical Laboratory Science programs.

TOTAL UNITS for Microbiology/BLS Option: 105 minimum