

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

B.S. Degree in Biological Science
Physiology Option

<u>Physical Sciences & Mathematics Core</u>		<u>Units</u>
Chem 1101, 1102, 1103	General Chemistry I, II, III	15
Chem 2301, 2302;	Survey of Organic Chemistry I, II OR:	
Chem 3301, 3302, 3303	Organic Chemistry I, II, III	8 or 15
Chem 3400 or 4411	Introductory Biochem., OR: General Biochem. I	4
Math 1304	Calculus I	4
Phys 2701, 2702, 2703	Introductory Physics I, II, III	12
Stat 3031	Statistical Methods in Biology	4

Biology Core

Biol 1401	Molecular and Cellular Biology	5
Biol 1402	Plant Biology	5
Biol 1403	Animal Biology	5
Biol 3110 or 3130	Principles of Ecology OR: Principles of Evolutionary Biology	4
Biol 3121	Principles of Genetics	5
Biol 3151	Principles of Animal Physiology	5

Concentration & Electives - Complete at least 23 units (5 or 6 classes); including at least 4 classes from the list below. Extra classes may be those Biology classes numbered: 3100 – 3999, or 4100 – 4999. Chem 4412 or Geol 3400 may also be used.

Biol 3430	Hematology	4
Biol 4150	Mammalian Physiology	4
Biol 4160	Medical Physiology	4
Biol 4405	Microbial Physiology and Biochemistry	4
Biol 4413	Medical Microbiology	6
Biol 4430	Immunology	4
Biol 4510	Neurobiology	4
Biol 4513	Animal Senses	4
Biol 4516	Environmental Animal Physiology	4
Biol 4517	Environmental Toxicology	4
Chem 4460	Major Organ Biochemistry	3
MSC 4135	Physiological Ecology of Marine Algae (@ Moss Landing)	6

TOTAL UNITS FOR OPTION with Chem 23xx series: 99 Units (min.)
TOTAL UNITS FOR OPTION, with Chem 33xx series: 106 Units (min.)