Bachelor of Science in Biology  
MARINE BIOLOGY CONCENTRATION

Lower-Division Core in Biology  
BIOL 130 (Introductory Cell Biology and Genetics, 4 units)  
BIOL 131 (Diversity and Ecology, 4 units)

Physical Sciences & Mathematics  
CHEM 115A & 115B (General Chemistry, 10 units)  
CHEM 335A & 335B (Organic Chemistry, 6 units)  
MATH 165 (Elementary Applied Statistics, 4 units)  
MATH 161 (Differential and Integral Calculus, 4 units)  
PHYS 210A & 210B (General Physics Lecture, 6 units)  
PHYS 209A (General Physics Lab, 1 unit)

Upper-Division Core in Biology  
BIOL 320 (Evolution and Ecology, an Integrated Approach, 4 units)  
BIOL 321 (Molecular Biology, Cell Biology and Physiology, 4 units)

Organismal/Diversity Requirement  
BIOL 322 (Invertebrate Biology, 4 units)  
BIOL 323 (Entomology, 4 units)  
BIOL 327 (Vertebrate Biology, 4 units)  
BIOL 329 (Plant Biology, 4 units)  
BIOL 340 (General Bacteriology, 4 units)

Upper-Division Requirements  
BIOL 332 (Marine Biology, 3 units)

Additional Upper-Division Requirements  
BIOL 322 (Invertebrate Biology, 4 units)  
BIOL 324 (Marine Mammals, 3 units)  
BIOL 333 (Ecology, 4 units)  
BIOL 335 (Marine Ecology, 4 units)  
BIOL 337 (Behavioral Ecology, 3 units)  
BIOL 341 (Evolution, 4 units)  
BIOL 347 (Environmental Physiology, 4 units)  
BIOL 485 (Biometry, 4 units)

Major Electives for Concentration  
Choose in consultation with your advisor

Research Experience:  
(a) Research Experience in Biology  
BIOL 490 (3 units)  
(b) Honors Thesis (enrollment by application only)  
BIOL 496A Honors Thesis I – Research Design (1-2 units)  
AND  
BIOL 496B Honors Thesis II (2-3 units)  
(c) Independent Research  
BIOL 494 (1-3 units)

Total 78  
GE (12 units in major) 38  
Electives 4  
Total Units in Degree 120

Recommended Advisors (in alphabetical order): Dan Crocker, Brent Hughes, Murali Pillai, Sean Place, and Mackenzie Zippay