2016-2017
MARINE BIOLOGY

LOWER-DIVISION REQUIREMENTS
Biology  BILD 1_____ BILD 2_____ BILD 3_____
Math    10A_____ 10B_____ 10C_____ (or 20A_____ 20B_____ 20C_____
Chemistry  6A_____ 6B_____ 6C_____ 7L_____ 
Physics  1A_____1AL_____1B_____1BL_____1C_____1CL_____ 
                (or 2A_____ 2B_____ 2C_____)
SIO       90_____ 

UPPER-DIVISION REQUIREMENTS
1. Marine Biology Core  (all courses required)
SIO 132 _____ Introduction to Marine Biology
SIO 134 _____ Introduction to Biological Oceanography
SIO 181 _____ Marine Biochemistry (prerequisite waived for majors)
SIO 136 _____ Marine Biology Laboratory
SIO 139 _____ Current Research in Marine Biology Colloquium

2. Biology Core Courses  (all courses required)
SIO 187 _____ Statistical Methods in Marine Biology
BICD 100 _____ Genetics

3. Oceans, Physics and Chemistry Requirement*
SIO 119 _____ Physics and Chemistry of the Ocean

4. Restricted Electives  (at least 5 of the following; 2 must be indicated as Lab courses)
SIO 123 _____ Microbial Environmental Systems Biology
SIO 125 _____ Biomechanics of Marine Life
SIO 126 _____ Marine Microbiology
SIO 127 _____ Marine Molecular Ecology
SIO 128 _____ Microbial Life in Extreme Environments
SIO 129 _____ Marine Chemical Ecology
SIO 133 _____ Marine Mammal Biology
SIO 138 _____ The Coral Reef Environment
SIO 189 _____ Pollution, Environment & Health
CHEM 140A  _____ Organic Chemistry I
CHEM 140B/BH _____ Organic Chemistry II
BIBC 102 _____ Metabolic Biochemistry
BIEB 102 _____ Introduction to Ecology
BIEB 150 _____ Evolution
SIO 199 _____ Independent Study

LAB ELECTIVES:
SIO 101 _____ California Coastal Oceanography
SIO 104 _____ Paleobiology & History of Life
SIO 126L _____ Marine Microbiology Lab
SIO 147 _____ Applications of Phylogenetics
SIO 183 _____ Phycology: Biology of Marine Plants
SIO 184 _____ Marine Invertebrates
CHEM 143A/AH _____ Organic Chemistry Lab
BIBC 103 _____ Biochemical Techniques Lab

*Effective Spring 2016