

B.S. Marine Biology – Marine Conservation Option

2011-2012

(75 total hours)

The Marine Conservation option is designed for students primarily interested in the biological aspects of conservation science in marine environments (e.g., community ecology, population biology, biogeography, conservation genetics and assessment of threatened or endangered species and habitats).

Biology Core Requirements: (8 hours)

Core requirements for all biology majors

_____ 201 Principles of Biology: Cells (4)

_____ 202 Principles of Biology: Biodiversity (4)

*******BIO 201 and 202 are the pre-requisite courses for biology courses numbered above 300*******

Marine Biology Requirements: (17 hours minimum)

___335 Genetics lecture and lab (3, 1 credit hours each) pre-requisites: BIO 201 & 201

___366 Ecology lecture and lab (3, 1 credit hours each) pre-requisites: BIO 201 & 201

___362 Marine Biology (4 credit hours)

___Physiology requirement (4 credit hours):

- 325 Molecular Biology of the Cell lecture and lab (3, 1 credit hours each) pre-requisites: BIO 201, 202 and CHM 211

- 340 Plant Physiology (4 credit hours) pre-requisites: BIO 201, 202 and CHM 102

- 345 Animal Physiology lecture and lab (3, 1 credit hours each) pre-requisites: BIO 201, 202 and CHM 102

___495 or 495L Seminar (1-3 credit hours) 3 hours maximum. Pre-requisites: full BIO or MBY major; BIO 201, 202, 335, 366, and a physiology course

Marine Biology Required Elective Core: (8 hours) choose two courses with lab

_____ 312 Marine Botany (4) or 313 Marine Phycology (4)

_____ 318 Invertebrate Zoology (4)

_____ 357 Ichthyology + lab (3 +1)

Marine Biology Electives: a minimum of 13 hours chosen from the courses listed below. ***BIO 466 is required.**

(No more than 10 hours from BIO 480, 491, 493, 498, and 499 can be counted towards the 13 elective hours.) >500 level (graduate) courses may be chosen with permission of the instructor.

312	Marine Botany	434	Coastal Marine Ecology
313	Marine Phycology	458	Fisheries Biology
318	Invertebrate Biology	463	Coral Reef Ecology
357	Ichthyology	466	Conservation Biology (*required)
358	Marine Mammals	478	Global Environmental Problems
368	Behavioral Ecology	486	Advanced Topics in Mariculture
380	Mariculture	487	Introduction to Coastal Management
430	Evolutionary Biology	491	Directed Individual Study
499	Honors in Biology	498	Internship in Biological Sciences

Collateral Requirements: (29 hours minimum)

_____ Chemistry 101 (4)

_____ Chemistry 102 (4)

_____ Chemistry 211 and CHML 211 (3) (1), prerequisite CHM 102

_____ GLY 150 (3)

_____ Physics 101 (corequisite MAT 111) or 201 (corequisite MAT 161) (4)

_____ Physics 102 (corequisite MAT 111) or 202 (corequisite MAT 162) (4)

_____ Mathematics 151 or 161 (3)

_____ Statistics 215 (3)

A "C" (2.00 GPA) or better average on Biology courses numbered above 299 is required for graduation.