

B.S. MARINE BIOLOGY

Catalog 2011-2012

75 hours

The UNCW marine biology curriculum is a unique baccalaureate program in the university system. It includes a strong foundation of biology with an emphasis in marine biology at the junior and senior levels. Full use is made of the natural laboratory provided by the adjacent Atlantic Ocean through extensive field work in many marine biology and biology courses. The curriculum is flexible enough to meet the individual needs of the student enabling preparation for graduate studies or for teaching and research careers available to one with the baccalaureate degree.

A major in Marine Biology can be declared after completing 24 semester hours of credit and BIO 201 and BIO 202, or equivalent courses, with a grade of 'C' (2.00) or better in both courses.

MARINE BIOLOGY CORE REQUIREMENTS (25 Hours)

___201 Principles of Biology: Cells (4 credit hours)

___202 Principles of Biology: Biodiversity (4 credit hours)

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

___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 REQUIREMENTS (8 Hours)

___312 Marine Botany (4 credit hours) **or** 313 Marine Phycology (4 credit hours)

___318 Invertebrate Zoology (4 credit hours)

___357 Ichthyology and 357L Ichthyology Lab (3, 1 credit hours)

MARINE BIOLOGY ELECTIVES (13 Hours)

(choose 13 hours from Biology courses numbered above 299. 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.

<u>Course name/number</u>	<u>Hours</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

COLLATERAL REQUIREMENTS (29 Hours)

___ Chemistry 101 (4 credit hours)

___ Chemistry 102 (4 credit hours)

___ Chemistry 211 and CHML 211 (3, 1 credit hours), prerequisite CHM 102

___ Geology 150 (3 credit hours)

___ Physics 101 (corequisite MAT 111) or 201 (corequisite MAT 161) (4 credit hours)

___ Physics 102 (corequisite MAT 111) or 202 (corequisite MAT 162) (4 credit hours)

___ Mathematics 151 (3 credit hours) or 161 (4 credit hours)

___ Statistics 215 (3 credit hours)

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