

**B.S. in MARINE BIOLOGY -- MARINE CONSERVATION OPTION -- Catalog 2020-2021
(75 total hours)**

The Marine Conservation option provides a B.S. Marine Biology degree plan that 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).

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

Core Requirements: **(28 hours total)**

- _____ 201 Principles of Biology: Cells **(4)**
- _____ 202 Principles of Biology: Biodiversity **(4)**

*****BIO 201 and 202 are the prerequisite courses for all biology courses numbered 300 and above*****

- _____ 335 Genetics with lab **(3) (1)**, prerequisites: BIO 201 and BIO 202
- _____ Physiology, chosen from one of the following bullets:
 - 325 Molecular Biology of the Cell with lab **(3) (1)**, prerequisites: BIO 201, BIO 202, and CHM 211/CHML 211
 - 340 Plant Physiology **(4)**, prerequisites: BIO 201, BIO 202, and CHM 102
 - 345 Animal Physiology with lab **(3) (1)**, prerequisites: BIO 201, BIO 202, and CHM 102
- _____ 362 Marine Biology **(4)**, prerequisite or corequisite: BIO 366
- _____ 366 Ecology with lab **(3) (1)**, prerequisite: BIO 201 and BIO 202
- _____ 466 Conservation Biology **(3)**; prerequisites: BIO 201 and BIO 202
- _____ 495 Seminar **(1)**, prerequisites: BIO or MBY major; BIO 201, 202, 335, 366, and a physiology course
- _____ Applied Learning -- To satisfy the applied learning requirement for the B.S. in marine biology a student must successfully complete one of the following: honors in any science department (BIO 499, CHM 499, EVS 499, GLY 499, MAT 499, PSY 499, PHY 499); directed individual study involving hands-on experience in any science department (BIO 491, CHM 491, EVS 491, GLY 491, MAT 491, PSY 491, PHY 491); BIO 498 Internship, BIO 493 Teaching Practicum; formal student teaching experience taken for UNCW credit (e.g. EDNL 406, EDN 409, EDN 411); BIO 480 Field Studies; BIO 495 Senior Seminar.

Marine Biology Requirements (8 Hours) (prerequisite for all: BIO 362)

- _____ 312 Marine Botany **(4)** or 313 Marine Phycology **(4)**
- _____ 318 Invertebrate Zoology **(4)** or 357 Ichthyology and 357L Ichthyology Lab **(3, 1)**

Marine Biology Electives: a **minimum of 10 hours** chosen from the courses listed below and not used to satisfy other requirements.

No more than 10 hours may be counted from BIO 491 (6 hr. max), 498 (3 hr. max), and 499 (6 hr. max)

	312 Marine Botany	380 Mariculture	478 Global Environ. Problems
_____	313 Marine Phycology	430 Evolutionary Biology	486 Advanced Topics in Mariculture
_____	318 Invertebrate Zoology	434 Coastal Marine Ecology	487 Intro. to Coastal Management
_____	357 Ichthyology	452 Mammalogy	491 Directed Individual Study
_____	358 Marine Mammals	458 Fisheries Biology	498 Internship in Biological Sciences
_____	367 Antarctic Ecology	462 Deep Sea Biology	499 Honors work in Biology
_____	368 Behavioral Ecology	463 Coral Reef Ecology	
_____	Total elective hours		

Collateral Requirements: **(29 hours minimum)**

- _____ Chemistry 101 **(4)**
- _____ Chemistry 102 **(4)**
- _____ Chemistry 211 and CHML 211 **(3, 1)** (prerequisite CHM 102)
- _____ OCN 150 Intro to Oceanography **(3)** (course has separate lab that is not required for this major)
- _____ Physics 101 (co-requisite MAT 111) or 201 (co-requisite MAT 161) **(4)**
- _____ Physics 102 (co-requisite MAT 111) or 202 (co-requisite MAT 162) **(4)**
- _____ Mathematics 151 **(3)** or 161 **(4)**
- _____ Statistics 215 **(3)**

A "C" (2.00 GPA) or better average in Biology courses numbered above 299 and an overall 2.00 GPA in all courses are required for graduation.