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 with lab **(3) (1)**, prerequisites: BIO 201 and BIO 202
_____ 366 Ecology with lab **(3) (1)**, prerequisite: BIO 201 and BIO 202
_____ 466 Conservation Biology **(3)**; prerequisites: BIO 201, BIO 202, BIO 366, and junior or senior standing
_____ 495 Seminar **(1)**, prerequisites: BIO or MBY major; Senior standing
_____ 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)

___ 313 Marine Phycology **(4) or** 412 Marine Botany **(4)**
___ 318 Invertebrate Zoology **(4) or** 457 Ichthyology and 457L 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)

_____ _____
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_____ Total elective hours

313 Marine Phycology	412 Marine Botany	470 Mariculture
318 Invertebrate Zoology	430 Evolutionary Biology	486 Advanced Topics in Mariculture
358 Marine Mammals	434 Coastal Marine Ecology	487 Intro. to Coastal Management
363 Coral Reef Ecology	452 Mammalogy	491 Directed Individual Study
367 Antarctic Ecology	457 Ichthyology	498 Internship in Biological Sciences
368 Behavioral Ecology	458 Fisheries Biology	499 Honors work in Biology
378 Global Environ. Problems	462 Deep Sea Biology	

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.

Last updated: 10/29/20