B.S. in MARINE BIOLOGY -- Catalog 2014-2015

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 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: (25 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
- 495 or 495L 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, BIO 493; formal student teaching experience taken for UNCW credit (e.g. EDNL 406, EDN 409, EDN 411); BIO 480 or BIOL 495.

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 13 hours chosen from courses numbered above 299 and not used to satisfy other requirements. At least one must be a laboratory course. >500 level courses may be chosen with permission of the instructor.

No more than 10 hours may be counted from BIO 480, 491, 493 (2 hr. max), 495 (2 hr. max), 498 (3 hr. maximum), and 499 (6 hr. max)

- ____________________________________  ____________________________________
- ____________________________________  ____________________________________
- ____________________________________  ____________________________________
- total elective hours

Collateral Requirements (29 Hours)
- Chemistry 101 (4)
- Chemistry 102 (4)
- Chemistry 211 and CHML 211 (3, 1) (prerequisite: CHM 102)
- Intro to Oceanography OCN 150 (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: 8/29/14