B. S. Biology (BIO)

College: Arts & Science

Terrestrial and Freshwater Conservation Option

Course requirements for all UNCW degrees include: (1) University Studies, (2) specific major requirements, and (3) sufficient elective hours for a combined total of a minimum of 124 hours.

MAJOR REQUIREMENTS - BIO (Minimum 73 hours)

The B.S. Biology Terrestrial and Freshwater Conservation option provides a B.S. Biology degree plan that is designed for students primarily interested in the biological aspects of conservation science (e.g. community ecology, population biology, biogeography, conservation genetics and assessment of threatened or endangered species and habitats).

Core Courses: (55-60 hours)

- **BIO 201** Principles of Biology: Cells (4)
- **BIO 202** Principles of Biology: Biodiversity (4)
- **BIO 335** Genetics (3), Lab (1) Prerequisites: BIO 201 and 202 (Meets Computer Requirement with BIO 366)
- **BIO 366** Ecology (3), Lab (1) Prerequisites: BIO 201 and 202 (Meets Computer Requirement with BIO 335)
- **BIO 325** Molecular Biology of the Cell (3), Lab (1) Prerequisites: BIO 201, 202, and CHM 211
  - or **BIO 340** Plant Physiology (4) Prerequisites: BIO 201, 202, and CHM 102
  - or **BIO 240 & *241** Human Anatomy and Physiology I, II (3, 3), Lab (1, 1) Prerequisites: BIO 201 and CHM 101
- **BIO 466** Conservation Biology (3) Prerequisite: BIO 366 and junior/senior standing
  - or **BIOL 495** Applied Learning Seminar (1) Prerequisites: BIO 201, 202, 335, 366 & a physiology class, or consent of instructor (Meets Oral Communication and Applied Learning Requirements)
  - +*CHM 101 General Chemistry I (4)
  - **CHM 102** General Chemistry II (4) Prerequisite: CHM 101
  - **CHM 211** Organic Chemistry I (3), Lab (1) Prerequisite: CHM 102
  - **CHM 212** Organic Chemistry II (3), Lab (1) Prerequisite: CHM 211
  - or **BIO 465** Biochemistry (3), Lab (1) Prerequisites: BIO 201, 202, CHM 211 and junior standing
  - +*MAT 151 Basic Calculus with Applications I (3) Prerequisite: MAT 111 or 115 or equivalent preparation
  - +*MAT 161 Calculus with Analytical Geometry I (4) Prerequisite: MAT 112 or 115 or equivalent preparation
  - +*PHY 101-102 Elementary College Physics (4, 4) For 101: Corequisite: MAT 111; For 102: Prerequisite: PHY 101
  - +STT 215 Introduction to Statistics (3) Prerequisite: Satisfactory performance on UNCW math test or MAT 105
  - Choose 1 course from the following: EVS +*195, 330, 360, 364 or 430.

Electives: (19 hours)

- **BIO** Choose 16 hours from the following: BIO *311, *314, *318, *356, *357, 368, 430, *452, *454,
  - **BIO** Note: No more than 10 hours from BIO 480, 491, 498 and 499 can be counted toward the elective 16 hours.
  - **EVS** Choose 3 hours from: EVS 195, 330, 360, 364, 430.

NOTE: Students planning to attend graduate school are also encouraged to take CHM *235, MAT 152 or 162, CSC 112, +121. Students interested in health professional schools should visit http://www.uncw.edu/preprofessional.

BIO 201 and 202 must have a grade of “C” or better, and a cumulative GPA of 2.00 or better is required in all BIO courses above the 299-level.

*These courses require a lab

+May also be used to satisfy University Studies Foundations & Approaches and Perspectives requirements

Requirements to declare PRE-BIO: Completion of 24 semester hours.

Requirements to declare BIO: Completion of BIO 201 and 202 or equivalent courses with a grade of “C” or better in both courses. 

Transfer students wishing to declare a major in biology or marine biology must meet admission requirements, which are: a) completion of 24 semester credit hours from an accredited four-year college or university and a 2.00 grade point average in two biology courses with lab, preferably BIO 201 and 202, or equivalents; or b) completion of an associate degree from an accredited two-year college and a 2.00 grade point average in two biology courses with labs.

For further information, see the BIO website: http://www.uncw.edu/bio and http://catalogue.uncw.edu.

This document is considered an unofficial guide. Please refer to your degree audit for the latest updates.

4/25/14