

B. S. Computer Science (CSC)*College: Arts & Sciences*

Option 2: Biology Concentration

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 – CSC Option 2 – Biology (Minimum 76 hours)**Core Courses:** (55 hours)

- _____ CSC 131 Introduction to Computer Science (4) Prerequisite: MAT 111 or 115
- _____ +CSC 133 Discrete Mathematical Structures (3) Prerequisite: MAT 111 or 115, or equivalent
- _____ CSC 231 Introduction to Data Structures (4) Prerequisite: CSC 131, Corequisite: CSC 133
- _____ CSC 242 Computer Organization (3) Prerequisites: CSC 131 and 133
- _____ CSC 331 Object-Oriented Programming and Design (3) Prerequisite: CSC 231
- _____ CSC 344 Computer Networks (3) Prerequisite: CSC 242
- _____ CSC 360 Formal Languages and Computability (3) Prerequisites: CSC 231 and 242
- _____ CSC 380 Design and Analysis of Algorithms (3) Prerequisites: CSC 133, 231, and MAT 161
- _____ CSC 385 Professional and Ethical Issues in Computer Science (3) Prerequisites: ENG 101 or equivalent and junior/senior standing in computer science (Meets **Oral Communication Requirement**)
- _____ CSC 434 Programming Languages (3) Prerequisites: CSC 331 and 360
- _____ CSC 450 Software Engineering (3) Prerequisites: CSC 331 and senior standing (Meets **Applied Learning Requirement**)
- _____ CSC 455 Database Design and Implementation (3) Corequisite: CSC 331
- _____ +*MAT 161 Calculus with Analytical Geometry I (4) Prerequisite: MAT 112 or 115 or equivalent preparation
- _____ *MAT 162 Calculus with Analytical Geometry II (4) Prerequisite: MAT 161
- _____ +QMM 280 Statistical Analysis for Business and Economics (3) Prerequisite: MAT 111
- _____ or +STT 215 Introduction to Statistics (3) Prereq: Satisfactory performance on the UNCW math test or MAT 105
- _____ CSC _____ Choose 6 additional hours in CSC at the 300-400 level; must be approved by advisor.
- _____ CSC _____

Biology Concentration: (21 hours)

- _____ +*BIO 201 Principles of Biology: Cells (4)
- _____ +*BIO 202 Principles of Biology: Biodiversity (4)
- _____ BIO _____ Select 2 courses (1 course must have a lab component) from the following: BIO *335 or *366, or 1 course from BIO *325, *340, or *345; or both BIO *240 and *241.
- _____ BIO _____ Select 2 courses (with or without lab) from the following: BIO *335 or *366, or one from BIO *325, *340, or *345.

A grade point average of “C” (2.00) or better computed over the CSC courses and all the courses used to fulfill the requirements of the major are required.

**These courses require a lab*

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

Requirements to declare CSC: Completion of 24 hours

For further information, see the CSC website: <http://www.uncw.edu/csc> and <http://catalogue.uncw.edu>.

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