

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 120 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 with a grade of “C” or better, Corequisite: CSC 133
- ____ CSC 242 Computer Organization (3) Prerequisites: CSC 131 with a grade of “C” or better and 133
- ____ CSC 331 Object-Oriented Programming and Design (3) Prerequisite: CSC 231 with a grade of “C” or better
- ____ CSC 344 Computer Networks (3) Prerequisite: CSC 231 with a grade of “C” or better and CSC 242
- ____ CSC 360 Formal Languages and Computability (3) Prerequisites: CSC 231 with a grade of “C” or better and 242
- ____ CSC 380 Design and Analysis of Algorithms (3) Prerequisites: CSC 133, 231 with a grade of “C” or better, 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 or information technology (Meets **Oral Communication Requirement**)
- ____ CSC 434 Programming Languages (3) Prerequisites: CSC 331 with a grade of “C” or better and 360
- ____ CSC 450 Software Engineering (3) Prerequisites: CSC 331 with a grade of “C” or better and senior standing (Meets **Applied Learning Requirement**)
- ____ CSC 455 Database Design and Implementation (3) Prerequisite: CSC 331 with a grade of “C” or better (Meets **Applied Learning Requirement**)
- ____ +*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
- ____ +BAN 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) Complete requirements for minor in Biology

- ____ +*BIO 201 Principles of Biology: Cells (4)
- ____ +*BIO 202 Principles of Biology: Biodiversity (4)
- ____ BIO _____ **Additional 13 hours in BIO above the 200 level.
- ____ BIO _____
- ____ BIO _____
- ____ BIO _____

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>

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