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 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.

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** 13 additional hours in biology above the 200 level.

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.

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