

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

Option 1: Systems

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 1 – Systems (Minimum 73 hours)**Core Courses:**

- _____ 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 340 Scientific Computing (3) Prerequisites: CSC 231 with a grade of “C” or better and MAT 162
 _____ CSC 342 Operating Systems (3) Prerequisites: CSC 231 with a grade of “C” or better and 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
 _____ +STT 215 Introduction to Statistics (3) Prereq: Satisfactory performance on the UNCW math test or MAT 105
 _____ CSC _____ **Choose 9 additional hours of 300-400 level CSC courses approved by an advisor.
 _____ CSC _____
 _____ CSC _____
 _____ **Choose 1 two-part sequence: PHY +*201 & +*202, or BIO +*201 & +*202, or CHM +*101 & *102.

 _____ **Choose 1 additional course from the following: BIO +*201, +*202, +*240, CHM +*101, *211, GLY +*101, +*120, PHY +*201. Do not choose one that is part of the two-course sequence.

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>