

**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 124 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, 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 340 Scientific Computing (3) Prerequisites: CSC 231 and MAT 162  
 \_\_\_\_\_ CSC 342 Operating Systems (3) Prerequisites: CSC 231 and 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 or information technology (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 (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 \_\_\_\_\_  
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 \_\_\_\_\_ Choose 1 two-part sequence: PHY +\*201 & +\*202, BIO +\*201 & +\*202, CHM +\*101 & \*102.  
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 \_\_\_\_\_ 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> and <http://catalogue.uncw.edu>