

**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) Prereq: MAT 111, 115 or equivalent, or sufficient math placement
___ +CSC 133	Discrete Mathematical Structures (3) Prereq: MAT 111, 115 or equivalent, or sufficient math placement
___ CSC 231	Introduction to Data Structures (4) Prereq: CSC 131, with grade of “C” or better, Coreq: CSC 133
___ CSC 242	Computer Organization (3) Prereq: CSC 131 with a grade of “C” or better, and 133
___ CSC 331	Object-Oriented Programming and Design (3) Prereq: CSC 231 with a grade of “C” or better
___ CSC 340	Scientific Computing (3) Prereq: CSC 231 with a grade of “C” or better and MAT 162
___ CSC 342	Operating Systems (3) Prereq: CSC 231 with a grade of “C” or better and 242
___ CSC 360	Formal Languages and Computability (3) Prereq: CSC 231 with a grade of “C” or better and 242
___ CSC 380	Design and Analysis of Algorithms (3) Prereq: CSC 133, 231 with grade of “C” or better, and MAT 161
___ CSC 385	Professional and Ethical Issues in Computer Science (3) Prereq: ENG 101 or equivalent and junior/senior standing in computer science or information technology (Meets <b>Oral Communication Requirement</b> )
___ CSC 434	Programming Languages (3) Prereq: CSC 331 with a grade of “C” or better and 360
___ CSC 450	Software Engineering (3) Prereq: CSC 331 with a grade of “C” or better and senior standing (Meets <b>Applied Learning Requirement</b> )
___ CSC 455	Database Design and Implementation (3) Prereq: CSC 331 with a grade of “C” or better (Meets <b>Applied Learning Requirement</b> )
___ CSC ___	**Choose 9 additional hours of 300-400 level CSC courses approved by an advisor.
___ CSC ___	
___ CSC ___	
___ +*MAT 161	Calculus with Analytical Geometry I (4) Prereq: MAT 112, 115 or equivalent, or sufficient math placement
___ *MAT 162	Calculus with Analytical Geometry II (4) Prereq: MAT 161
___ +STT 215	Introduction to Statistics (3) Prereq: Sufficient math placement or MAT 105 or equivalent.
___	**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.

An combined overall GPA of “C” (2.00) or better is required for all courses used to fulfill the requirements of the major.

*\*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>