

4+1 Combined Bachelors and Masters Degree**B. S. Computer Science (CSC) / M. S. Computer Science and Information Systems****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 72 hours)**Core Courses:** (61 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, 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 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 380	Design and Analysis of Algorithms (3) Prerequisites: CSC 133, 231, and MAT 161
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or

___	CSC 532	Design and Analysis of Algorithms I (3) Prerequisites: CSC 500 or approval of the graduate coordinator
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___	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)
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___	CSC 434	Programming Languages (3) Prerequisites: CSC 331 and 360
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___	CSC 450	Software Engineering (3) Prerequisites: CSC 331 and senior standing (Meets Applied Learning Requirement)
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or

___	CSC 550	Software Engineering (3) Prerequisites: CSC 500 or approval of the graduate coordinator (Meets Applied Learning Requirement)
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___	CSC 455	Database Design and Implementation (3) Corequisite: CSC 331
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___	CSC ___	Choose 9 additional hours in CSC at the 300-600 level; must be approved by advisor. 3 hours should be at the graduate level (500 or higher) §.
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___	CSC ___	
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or

___	CSC 544	Network Programming (3) Prerequisites: CSC 500 or approval of the graduate coordinator
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___	+*MAT 161	Calculus with Analytical Geometry I (4) Prerequisite: MAT 112 or 115 or equivalent preparation
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___	*MAT 162	Calculus with Analytical Geometry II (4) Prerequisite: MAT 161
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___	+BAN 280	Statistical Analysis for Business and Economics (3) Prerequisite: MAT 111
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or

___	+STT 215	Introduction to Statistics (3) Prereq: Satisfactory performance on the UNCW math test or MAT 105
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___	**Choose 1 two-part sequence: PHY +*201 & +*202, or BIO +*201 & +*202, or 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.	
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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

§ No more than 12 hours total of graduate-level courses may be applied to the undergraduate degree.