

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 72 hours)**Core Courses:**

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| _____ | 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) Prerequisite: 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 _____ | |
| _____ | CSC _____ | |
| _____ | | Choose 1 two-part sequence: PHY +*201 & +*202, BIO +*201 & +*202, 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> and <http://catalogue.uncw.edu>