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  Choose 1 two-part sequence: PHY +*201 & +*202, BIO +*201 & +*202, CHM +*101 & +102.

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

This document is considered an unofficial guide. Please refer to your degree audit for the latest updates.

5/25/2015