B. S. Computer Science (CSC)  

**College: Arts & Sciences**  

Option 2: Chemistry Concentration  

Course requirements for all UNCW degrees include: (1) [University Studies](https://www.uncw.edu/catalogue), (2) specific major requirements, and (3) sufficient elective hours for a combined total of a minimum of 124 hours.

**MAJOR REQUIREMENTS – CSC Option 2 – Chemistry** (Minimum 77 hours)

**Core Courses:** (55 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 344** Computer Networks (3) Prerequisite: CSC 231 and CSC 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 Req.)
- **+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
- **+BAN 280** Statistical Analysis for Business and Economics (3) Prerequisite: MAT 111
- **or** +STT 215 Introduction to Statistics (3) Prereq: Satisfactory performance on the UNCW math test or MAT 105
- **CSC_____** Choose 6 additional hours in CSC at the 300-400 level; must be approved by advisor.

**Chemistry Concentration:** (22 hours) Complete requirements for Chemistry minor

- **+CHM 101** General Chemistry I (4)
- **+CHM 102** General Chemistry II (4) Prerequisite: CHM 101

and

- **+CHM 211** Organic Chemistry I (3), Lab (1) Prerequisite: CHM 102
- **+CHM 212** Organic Chemistry II (3), Lab (1) Prerequisite: CHM 211
- **CHM_____** Choose 6 additional hours in CHM at the 300-400 level

**Or**

- **+CHM 211** Organic Chemistry I (3), Lab (1) Prerequisite: CHM 102
- **CHM 235** Quantitative Analysis (3), Lab (1) Prerequisites: CHM 101 and 102 with a grade of “C” or better in CHM 102

Choose 6 additional hours in CHM at the 300-400 level

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

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**Requirements to declare CSC:** Completion of 24 hours  

For further information, see the CSC website: [http://www.uncw.edu/csc](http://www.uncw.edu/csc) and [http://catalogue.uncw.edu](http://catalogue.uncw.edu).

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

6/5/2017