B. S. Computer Science (CSC)
College: Arts & Sciences
Option 2: Chemistry Concentration

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 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 with a grade of “C” or better, Corequisite: CSC 133
- **CSC 242** Computer Organization (3) Prerequisites: CSC 131 with a grade of “C” or better and 133
- **CSC 331** Object-Oriented Programming and Design (3) Prerequisite: CSC 231 with a grade of “C” or better
- **CSC 344** Computer Networks (3) Prerequisite: CSC 231 with a grade of “C” or better and CSC 242
- **CSC 360** Formal Languages and Computability (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 with a grade of “C” or better, 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 with a grade of “C” or better and 360
- **CSC 450** Software Engineering (3) Prerequisites: CSC 331 with a grade of “C” or better and senior standing (Meets Applied Learning Requirement)
- **CSC 455** Database Design and Implementation (3) Prerequisite: CSC 331 with a grade of “C” or better (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
- **BAN 280** Statistical Analysis for Business and Economics (3) Prerequisite: MAT 111
- **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
- **CHM 211** Organic Chemistry I (3), Lab (1) Prerequisite: CHM 102 with a grade of “C” or better
- **CHM 212** Organic Chemistry II (3), Lab (1) Prerequisite: CHM 211
- **CHM 235** Quantitative Analysis (3), Lab (1) Prerequisite: CHM 101 and CHM 102 with a grade of “C” or better
- **CHM** 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

**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.

4/20/2018