B. S. Computer Science (CSC)

College: Arts & Sciences

Option 2: Neuroscience 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 – Neuroscience (Minimum 73 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 242 and CSC 231
_____ 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

_____ +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

_____ QMM 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

_____ Choose 6 additional hours in CSC at the 300-400 level; must be approved by advisor.

Neuroscience Concentration: (23 hours)

_____ BIO 201 Principles of Biology: Cells (0-4)

or

_____ PSY 105 General Psychology (3)

_____ PSY 256 Brain and Behavior (3)

_____ BIO 443 Neurobiology (3) Pre-requisite: BIO 240 and VIO 241 or BIO 345

or

_____ PSY 456 Advanced Biological Psychology (3) Pre-requisite: PSY 256 and BIO 105 or BIO 201 or consent of instructor

_____ BIO 495 Seminar (1-3) Pre-Reqs: BIO 201, 202, 335, 366, and a physiology course or consent of instructor

or

_____ PSY 495 Topical Seminar (1-3) Pre-Requisite: PSY 105

_____ Choose 3 credit hours of neuroscience research (PSY 491 or 499 or BIO 491 or 499)

_____ Choose at least 6 hours of the following: BIO 240, 335, 443, CHM 101, 102, CSC 415, PAR 320, PSY 245, 356, 456, 457

*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