MAJOR REQUIREMENTS – CSC Option 2 (Minimum 73 - 79 hours)

Core Courses: (55 hours)

_____+CSC 131 Introduction to Computer Science (4) Prereq: MAT 111 or 115, or equivalent, or sufficient math placement
_____+CSC 133 Discrete Mathematical Structures (3) Prereq: MAT 111 or 115, or equivalent, or sufficient math placement
_____CSC 231 Introduction to Data Structures (4) Prereq: CSC 131 with grade of “C” or better; Coreq CSC 133
_____CSC 242 Computer Organization (3) Prereq: CSC 131 with a grade of “C” or better and 133
_____CSC 331 Object-Oriented Programming and Design (3) Prereq: CSC 231 with a grade of “C” or better
_____CSC 344 Computer Networks (3) Prereq: CSC 231 with a grade of “C” or better and CSC 242
_____CSC 360 Formal Languages and Computability (3) Prereq: CSC 231 with a grade of “C” or better and 242
_____CSC 380 Design and Analysis of Algorithms (3) Prereq: CSC 133, 231 with a grade of “C” or better, and MAT 161
_____CSC 385 Professional and Ethical Issues in Computer Science (3) Prereq: ENG 101 or equivalent and junior/senior standing in computer science or information technology (Meets Oral Communication Requirement)
_____CSC 434 Programming Languages (3) Prereq: CSC 331 with a grade of “C” or better and 360
_____CSC 450 Software Engineering (3) Prereq: CSC 331 with a grade of “C” or better and senior standing (Meets Applied Learning Requirement)
_____CSC 455 Database Design and Implementation (3) Prereq: CSC 331 with a grade of “C” or better (Meets Applied Learning Requirement)
_____CSC____ Choose 6 additional hours in CSC at the 300-400 level; must be approved by advisor.

Concentration Courses: (18 – 21 hours)

Biology Concentration: (21 hours)

_____+*BIO 201 Principles of Biology: Cells (4)
_____+*BIO 202 Principles of Biology: Biodiversity (4)
_____**Additional 13 hours in BIO above the 200 level.

Business Concentration: (22 hours)

_____+*ACG 201 Financial Accounting (3), Lab (1) Pre/Corequisite: MAT 111, Corequisite: ACGL 201
_____+ACG 203 Managerial Accounting (3) Prerequisite: ACG *201 and ACGL 201
_____+ECN 221 Principles of Economics – Micro (3) Prerequisite: MAT 111
_____+ECN 222 Principles of Economics – Macro (3) Prerequisite: ECN 221
_____+FIN 335 Principles of Financial Management (3) Prerequisites: ACG 201, ECN 222, and BAN 280
_____+MKT 340 Principles of Marketing (3) Prerequisite: Junior standing or admission to CSB
_____+MGT 350 Principles of Management (3) Prerequisite: Junior standing or admission to CSB

Chemistry Concentration: (22 hours)

_____+*CHM 101 General Chemistry I (4)
_____+*CHM 102 General Chemistry II (4) Prereq: 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) Prereq: CHM 211
or  _____+CHM 235 Quantitative Analysis (3), Lab (1) Prereq: CHM 101 & 102 with a grade of “C” or better
_____**Choose 6 additional hours in CHM at the 300-400 level
Digital Arts Concentration: (24 hours)
____+ARH 202  Renaissance Through Early Twentieth Century (3)
____ART 101  Two-Dimensional Design (3) Studio Art and Digital Arts minors only or instructor consent
____ART 260  Introduction to Graphic Design (3) Prerequisite: ART 101 or consent of instructor
____MIS 310  Web and Device Development Languages (3) Prerequisite: CIT 110 or CSC 131 or MIS 213.
____CSC 112  Introduction to Computer Programming (3) Prereq: MAT 111 or 115
or CSC 131  Introduction to Computer Science (4) Prereq: MAT 111 or 115
or MIS 316  Introduction to Business Application Development (3)
or MIS 120/ART220/FST 220  3-D Computer Graphics (3) Prereq: CSC 105,131 or instructor consent Coreq: ART 260
____  **6 hours electives – at least 3 hours at the 300-400 level, and at least 3 hours outside major. Choose from
____  CSC 315, 320, 368, 370, 421, 430, 475, 491; ARH 202, 206, 308, 386, ART 280, 282, 311, 312, 320, 341,
____  343, 360, 365, 380,382, 411, 412, 475, 491, 495, CIT 410, COM +160, +211, 280, 380,480,491, CRW 210,
____  301, 302, 318, 320, 330, 331, 332, 333, 368, 392, 393, 394, 397, 430, 491, 495, 497, MUS 110, 210,
____  310, 491, THR,211, 305, 306, 411, 491.

GIS Concentration: (21 hours)
____+GYY 215  The Digital Globe (3)
or GYY 220  Cartography (3) Prerequisite: GGY 130 or GGY 140
____GYY 281  Intro to Geographic Information Systems (3) Prereq: GGY 130, 140, EVS 195 or instructor consent
____GYY 322  Introduction to Remote Sensing (3) Prerequisite: GGY 130 or GLY 120 or GGY 215
____  **Choose 12 additional hours of electives, 6 credit hours at 300-level, and at least 9 hours outside
____  major, selected from the following: ANT 311, *BIO 366, 466, BIOL 366, CSC 370, 415, 455,
____  GGY 220, 222, 228, 333,424, 426, 428, 433, GLY 390, 470, 471, MIS 315, OCN 390 or 471.

Neuroscience Concentration: (23 hours)
____BIO 201  Principles of Biology: Cells (0-4)
____PSY 105  General Psychology (3)
____PSY 256  Brain and Behavior (3) Prerequisite: BIO 105 and PSY 105 or higher
____BIO 443  Neurobiology (3) Prerequisite: BIO 240, BIO 345, or PSY 256
or PSY 456  Advanced Biological Psychology (3) Prereq: PSY 256 and BIO 105 or 201, or instructor consent
____BIO 495  Seminar (1-3) Prerequisite: Senior standing
or PSY 495  Topical Seminar (1-3) Prerequisite: PSY 105
____  **Choose at least 9 hours of the following with at least 3 hours at 400 level or higher, and at least
____  9 hours outside the major: BIO 240, 335, 368, 415, 440, 443, 459, 484, 491, 499, CHM 101, 102,
____  CSC 415, PAR 320, PSY 245, 356, 456, 457, 491 or 499.

Security Concentration: (18 hours)
____CYB 201  Fundamentals of Cybersecurity (3)
____CSC 324  Cyber Operations (3). Prereq: CYB 201 and CSC 242.
____CSC 424  Computer Security (3) Prereq: CSC 331
____CSC 350  Secure Programming (3) Prereq: CSC 331 or
____CSC 354  Computer and Mobile Forensics (3) Prerequisite: CSC 242.
____CSC __  **Choose 3 hours from CSC 350, 354, 365, 465, 475, 491, 498. May double count with core electives.

Statistics Concentration: (18 hours)
____+STT 215  Introduction to Statistics (3) Prereq: Satisfactory math placement or MAT 105
____STT 305  Statistical Programming (3) Prerequisite: STT 215 or equivalent
____STT  **Choose 12 additional hours in STT at the 300-400 level.
____STT
____STT

An combined overall GPA of “C” (2.00) or better is required for all courses used to fulfill the requirements of the major.

*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

This document is considered an unofficial guide. Please refer to your degree audit for the latest updates. 5/10/2021