B. S. Information Technology (IT) with Cybersecurity 4+1

College of Arts & Sciences & Cameron School of Business

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 120 hours.

MAJOR REQUIREMENTS – CIT (Minimum 67 hours)

4+1 Program for Cybersecurity Concentration

Core Courses: (30 hours)
- CIT 110 Fluency in Information Technology (3)
- CIT 204 Digital Media (3) Prerequisite: CIT 110 CSC 105, or CSC 112, or permission of instructor
- CIT 225 LINUX Administration (3) Prerequisite: CSC 121 or 131
- MIS 310 Web Page Development (3) Prerequisite: CIT 110 or CSC 131 or MIS 213
- MIS 324 Information Security Management (3) Prereq: CIT 110 or MIS 213 and CIT 225 with a C- or better
- MIS 352 Network System Administration (3) Prerequisite: MIS 310
- CIT 410 Web Application Development (3) Prerequisite: CIT 213 with a grade of C- or better
- MIS 411 Information Systems Analysis (3) Prereq: CIT 213 with a grade C- or better or Pre/Coreq MIS 315 (Meets Applied Learning Requirement)
- CIT 425 Human-Computer Interfaces (3) Prerequisite: MIS 310
- MIS 480 IT Resource Planning and Management (3) Prerequisite: MIS 411 with a grade of C- or better

Required Courses: (25 hours)
- CIT 213 Introduction to Databases: Techniques and Technologies (3) Prerequisite: CIT 110
- MIS 320 Network Fundamentals (3) Prereq: CIT 110 or MIS 213 with a grade of C- or better
  OR
  - CSC 344 Computer Networks (3) Prerequisite: CSC 231 with a grade of C or better and CSC 242
  OR
  - CSC 544 Network Programming
- +CSC 131 Introduction to Computer Science (4) Prerequisite: MAT 111 or 115
- CSC 385 Professional and Ethical Issues in Computer Science (3) Prereq: ENG 101 or equivalent and Junior/Senior standing in CSC or CIT (Meets Oral Communication Requirement)
- +MAT 151 Basic Calculus with Applications I (3) Prereq: MAT 111; 115 or equivalent preparation in Algebra
  OR
  - CSC 133 Discrete Mathematical Structures (3) Prerequisite: MAT 11 or MAT 115
- MIS 315 Management of Database Systems (3) Prerequisite: MIS 213 or CIT 213
- MIS 316 Business Application Development (3) Prerequisite: MIS 216 or CSC 112 or CSC 131 or another programming language course approved by department chair
- +STT 215 Introduction to Statistics (3) Prerequisite: MAT 105 or satisfactory performance on math test
  OR
  - +BAN 280 Statistical Analysis for Business and Economics (3) Prerequisite: MAT 111

Concentration Courses: (12 hours)

Cybersecurity
- CYBR 201 Fundamentals of Cybersecurity (3)
- MIS 365 Ethical Hacking (3) Prerequisite: MIS 324 and Prereq/Coreq MIS 352
- **Choose 2 courses from the following list of courses: MIS 362, 363, 364, 367 or 2 of the following:
  - MIS 534 (Information Security Management) or MIS 562 (Cybersecurity essentials and program management) or CSC 564 (Computer and Network Security)