B. S. Information Technology (IT) with Generalist 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 Generalist 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 or CIT 225 with a C- or better
- CIT 410 Web Application Development (3) Prerequisite: MIS 310
- 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)

Generalist

Select four three-credit hour MIS, CIT, or CSC courses at 300-400 level with a grade of C- or better OR up to 3 of the following:
- CSC 517 Symbolic Artificial Intelligence or CSC 564 Computer and Network Security or CSC 587 Systems Simulation or
- CSC 592 Topics in Computing or CSC 517 Symbolic Artificial Intelligence or CSC 564 Computer and Network Security or
- CSC 587 Systems Simulation or CSC 592 Topics in Computing or MIS 503 (Programming For Analytics) or
- MIS 505 Data Visualization or MIS 506 (Text and Unstructured Data Analytics) or MIS 520 (Information Systems Strategy and Governance) or MIS 534 (Information Security Management) or MIS 555 (Database Management Systems) or
- MIS 562 (Cybersecurity Essentials and Program Management) or MIS 565 (Analysis, Modeling and Design) or
- MIS 576 Information Technology Project Management