B. S. Information Technology (IT)
College: Arts & Sciences & Cameron School of Business
Option 2: Software Engineering (SE) 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 120 hours.

MAJOR REQUIREMENTS – IT (Minimum 67 hours)

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 with a C- or better
- MIS 310 Web Page Development (3) Prerequisite: CIT 110 or CSC 131 or MIS 213
- MIS 324 Network Security (3) Prereq: MIS 320 or MIS 323 or CSC 344 with a minimum grade of C-
- MIS 352 Windows System Administration (3) Prerequisite: MIS 320 or MIS 323 or CSC 344 with a minimum grade of C-
- 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
- +CSC 131 Introduction to Computer Science (4) Prerequisite: MAT 111 or 115
- MIS 320 Network Fundamentals (3) Prereq: CIT 110 or CYBR 201 or MIS 213 with a grade of C- or better
- or
- CSC 344 Computer Networks (3) Pre/Corequisite: CSC 231 with a grade of C or better or CYBR 251 with grade of “C” or higher
- CSC 385 Professional and Ethical Issues in Computing (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 or or MAT 150 or equivalent preparation in Algebra
- or
- +CSC 133 Discrete Mathematical Structures (3) Prerequisite: MAT 111 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) Must Choose One

Students who wish to complete two concentrations may simultaneously apply up to 3 credit hours of course work towards both concentrations if the course is approved in both concentrations.

See next page for concentration list and requirements.
A. Business Applications Development
   ____ MIS 419 Information Technology Project Management (3) Prerequisite MIS 411
   ____ **Choose 3 courses from the following list: CSC 315, 331, MIS 303, 328, 331, 364, 413,
   ____ 491 (with a Business Application Focus), 495 (with a Business Application Focus),
   ____ 498 (with a Business Application Focus)

B. Business Data Management
   ____ MIS 327 Data Center Management (3) Prerequisite: MIS 213 or CSC 131
   ____ MIS___ **Choose 3 courses from the following list, with at least 1 MIS course:
   ____ Development Focus), 495 (with a Business Application Development Focus),
   ____ 498 (with a Business Application Development Focus).

C. Computer Science
   ____ CSC 231 Introduction to Data Structures (4) Prereq: CSC 131 with grade of “C” or better;
   Coreq CSC 133
   ____ CSC 331 Object-Oriented Programming (3) Prerequisite: CSC 231 with a minimum grade of C
   ____ CSC ___ **Choose 2 courses from the following CSC 315, 365, 385, 455, 465
   ____ CSC ___

D. Cybersecurity
   ____ CYBR 201 Fundamentals of Cybersecurity (3)
   ____ MIS 365 Ethical Hacking (3) Prerequisite: CIT 225 and MIS 352
   ____ ** Select 2 courses from the following list of courses: CIT 301, MIS 322, 362, 363, 364,
   ____ 367, or any CYBR course of which only one can be at the 200 level

E. General Information Technology
   Students who are unable to satisfy one of the concentrations may, with prior approval of the Dean,
   select four three-credit hour MIS, CIT. or CSC courses at 300-400 level with a grade or C- or
   better. Students who pursue this concentration may not complete a second concentration.
   ____ Course 1___________
   ____ Course 2___________
   ____ Course 3___________
   ____ Course 4___________

A minimum GPA of “C” (2.00) is required in all major courses. No grade below “C-” will be accepted towards
graduation in a core or required course.

*These courses require a lab
+May also be used to satisfy University Studies Foundations & Approaches and Perspectives requirements