COMPUTER SCIENCE, B.S. - INFORMATION SYSTEMS

The program outline and graduation requirements are listed below. In addition, free electives are selected to reach 120 credits overall required for graduation.

The department website provides an overview of the program, admission requirements (when applicable), faculty biographies, learning outcomes, and careers: https://www.southernct.edu/academics/computer-science/programs

GENERAL EDUCATION REQUIREMENTS

All bachelor’s degree programs include liberal education (LEP) and writing (W) course requirements. To review more detailed information regarding these requirements, please visit http://catalog.southernct.edu/undergraduate/degree-requirements.html (General Education Requirements). Courses in the major and/or cognate may also be used to satisfy LEP requirements where noted below (*).

MAJOR REQUIREMENTS (43 Credits)

Computer Science Requirements (28 Credits)
CSC 152 — CS1: Programming Fundamentals ('C' or better)
CSC 207 — Computer Systems
CSC 212 — CS2: Data Structures ('C' or better)
CSC 229 — Object-Oriented Programming ('C' or better)
CSC 235 — Web and Database Development
CSC 265 — Computer Networking and Security I
CSC 324 — Computer Ethics
CSC 330 — Software Design and Development
CSC 400 – Computer Science Project Seminar (T3)*

Information Systems Concentration (15 Credits)
CSC 424 — System Administration

Select four courses from:
CSC 310 — Multimedia Systems
CSC 334 — Human Computer Interaction
CSC 335 — Database System
CSC 341 — Digital Imaging
CSC 398 — Special Topics
CSC 431 — Computer Graphics
CSC 443 — Internet Programming
CSC 451 — Fundamentals of Deep Learning
CSC 453 — Information Security
CSC 465 — Computer Networking and Security II
CSC 476 — Fundamentals of Data Warehousing  
CSC 477 — Data Mining  
CSC 481 — Artificial Intelligence  
CSC 497 — Computer Science Internship

**COGNATE REQUIREMENTS (25 Credits)**

BIS 370 - Business Information Systems  
MAT 139 — Short Course in Calculus  
MAT 178 — Elementary Discrete Mathematics  
MAT 221 — Intermediate Applied Statistics

Select 1 courses from (3-4 credits) (T1QR)*:  
MAT 120 – College Algebra  
MAT 122 – Precalculus  
MAT 124 – Finite Mathematics

Select 3 courses from (9-10 credits):  
ACC 200 - Principles of Financial Accounting  
ACC 210 - Managerial Accounting  
BIS 305 - Systems Thinking for BIS  
BIS 371 - Information System Analysis and Design Techniques  
BIS 375 - Decision Support Systems

BIS 380 - Cloud Computing for Business  
BIS 400 - Global Information Systems  
BIS 410 - AI for Business Systems  
BIS 430 - Project Management  
BIS 460 - BIS Security Management  
BIS 470 - Management of Information Systems Design  
ENG 304 - Technical Writing and Communication