

COMPUTER STUDIES

COMPUTER SCIENCE

Associate in Applied Science

This career program in computer science prepares students for entry-level positions as a junior programmer. A graduate of the program will have a firm understanding of modern programming practices and related skills in information technology. Effective problem solving is central to good programming techniques; therefore, this is the foundation for the computer science curriculum. The software development process, (composing and coordinating component of a program) requires that students construct algorithms for problem solving with appropriate documentation. This curriculum has been designed to address these needs in preparing the student for a future in computer science. Computer science students have access to three computer labs utilizing contemporary operating systems located in the Instructional Computer Science Building. The faculty recommend the following minimal criteria for prospective students in the computer science program:

1. High school diploma or equivalent
2. Cumulative high school grade point average of C or above
3. Ranked in top half of high school graduating class
4. No developmental studies requirement

FIRST SEMESTER

- 3 s.h. Intermediate Spreadsheets and Database (CSIT 126)
 - 3 s.h. Introduction to Visual Basic (CSIT 160)¹ OR
Computer Programming I (CSIT 171)
 - 3 s.h. Introduction to Computer Organization (CSIT 140)²
 - 3 s.h. English I (ENGL 151)
 - 3 s.h. Principles of Accounting I (ACCT 161)
- 15 s.h.

SECOND SEMESTER

- 3 s.h. Advanced Visual Basic (CSIT 161) OR
Computer Programming II (CSIT 172)¹
 - 3 s.h. Systems Analysis (CSIT 212)³
 - 3 s.h. English II (ENGL 152)
 - 3 s.h. Fundamentals of Public Speaking (COMM 154)
 - 2 - 3 s.h. Health Requirement
 - 3 s.h. A Survey of Mathematics (MATH 151) OR
Finite Math (MATH 171) OR
Introduction to Probability (MATH 181) OR higher⁴
- 17 - 18 s.h.

THIRD SEMESTER

- 3 s.h. Data Base Management (CSIT 213)⁵
 - 3 s.h. Database Applications with VBA (CSIT 153)⁵
 - 3 s.h. Computer Science Elective -CSIT 130 or higher
 - 4 s.h. Science Elective
 - 3 s.h. Social Science Elective⁶
- 16 s.h.

FOURTH SEMESTER

- 3 s.h. Technical Writing for Computer Science (CSIT 208)³
 - 6 s.h. Computer Science Elective - CSIT 130 or higher
 - 3 s.h. Internship I (INTR 290)⁷
 - 6 - 7 s.h. Electives (to meet required 64 s.h.)
- 15 - 16 s.h.

Total Credits 64

¹CSIT171/CSIT172 sequence is recommended for students pursuing a bachelor's degree

²Fall semester day and evening sections; spring semester day sections only

³Spring semester evening section only

⁴MATH 265 is recommended for students pursuing a bachelor's degree

⁵Fall semester evening section only

⁶ECON 151 Macroeconomics Principles recommended for students pursuing a bachelor's degree

⁷Or Department approved course or courses