

# COMPUTER SCIENCE

## COMPUTER SCIENCE/INFORMATION TECHNOLOGY

### Associate in Applied Science

This career program prepares students for entry-level positions in a multitude of computer-related jobs. Both computer scientists and information technologists need a balance of software and hardware applications with concentration in specific courses emphasizing effective problem solving. 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 prepare the student to meet the future needs of integration, design, deployment, and management of computing, resources and services. A graduate of the program will have a firm understanding of modern programming practices and related skills in computer information technology. Computer science students have access to five computer labs utilizing contemporary operating systems, located in the Technology Building. The faculty recommend the following minimal criteria for prospective students in the Computer Science/Information Technology 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. Introduction to Visual Basic (CSIT 160) or  
Computer Programming I (C++)(CSIT 171)
  - 3 s.h. Introduction to Computer Organization (CSIT 140)
  - 3 s.h. English I (ENGL 151)
  - 3 s.h. A Survey of Mathematics (MATH 151) or  
Finite Mathematics (MATH 171) or  
Introduction to Probability (MATH 181) or higher
  - 3 s.h. Social Science Elective
- 15 s.h.

#### SECOND SEMESTER

- 3 s.h. VB.Net Programming (CSIT 162) or  
Computer Programming II (C++)(CSIT 172)
  - 3 s.h. English II (ENGL 152)
  - 4 s.h. Lab Science Elective
  - 6 s.h. Computer Science Electives \*
- 16 s.h.

#### THIRD SEMESTER

- 6 s.h. Computer Science Electives\*
  - 3 s.h. Fundamentals of Public Speaking (COMM 154)
  - 6-7 s.h. Electives (to meet required 64 s.h.)
- 15-16 s.h.

#### FOURTH SEMESTER

- 3 s.h. Database Management (CSIT 213)
  - 6 s.h. Computer Science Electives \*
  - 3 s.h. Business Studies Elective
  - 2-3 s.h. Applied Modern Health I (HEHP 110) or  
Contemporary Health (HEHP 225)
  - 3 s.h. Internship I (INTR 290)
- 17-18 s.h.

#### TOTAL CREDITS 64

\*Any CSIT course (CSIT 120 or higher) including those recommended for the following tracks. Students are not required to select a specific track to complete this degree.