

Course work will develop a student's ability to communicate complex technical issues related to computer hardware, software, and networks in a manner that computer users can understand. Classes cover computer operations and terminology, operating systems, database, networking, security, and technical support.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to manage information. Graduates should be prepared to sit for industry-recognized certification exams.

Degree Awarded

The Associate in Applied Science Degree in Information Systems is awarded by the College upon completion of this program.

Admissions

- A high school diploma or equivalent is required.
- Placement tests determine placement in English (ENG), mathematics (MAT), and CIS 115.
- Many courses have prerequisites or corequisites; check the Course Descriptions section for details.

Contact Information

The Computer Information Technology program is in the Information Technology Division. For more information, call 704.330.6643 or 704.330.6549.

Major and Related Course Requirements

| | Class | Lab | Hours Clinical | Work Exper. | Credits |
|---|-------|-----|----------------|-------------|---------|
| CIS 115 Introduction to Programming & Logic | 2 | 2 | 0 | 0 | 3 |
| CTS 120 Hardware/Software Support | 2 | 3 | 0 | 0 | 2 |
| CTS 285 Systems Analysis & Design | 3 | 0 | 0 | 0 | 3 |
| DBA 110 Database Concepts | 2 | 3 | 0 | 0 | 3 |
| NOS 110 Operating System Concepts | 2 | 3 | 0 | 0 | 3 |
| NOS 130 Windows Single User | 2 | 2 | 0 | 0 | 3 |
| NOS 230 Windows Admin I | 2 | 2 | 0 | 0 | 3 |
| SEC 110 Security Concepts | 3 | 0 | 0 | 0 | 3 |
| CTS 289 System Support Project | 1 | 4 | 0 | 0 | 2 |
| CIS 110 Introduction to Computers | 2 | 2 | 0 | 0 | 3 |
| WEB 110 Internet/Web fundamentals | 2 | 2 | 0 | 0 | 3 |
| ACC 120 Prin. of Accounting | 3 | 2 | 0 | 0 | 4 |

Business

Students must select one of the following courses:

| | | | | | |
|---|---|---|---|---|---|
| BUS 110 Introduction to Business | 3 | 0 | 0 | 0 | 3 |
| CTS 115 Information Systems Business Concepts | 3 | 0 | 0 | 0 | 3 |

Networking

Students must select one of the following courses:

| | | | | | |
|-----------------------------|---|---|---|---|---|
| NET 110 Networking Concepts | 2 | 2 | 0 | 0 | 3 |
| NET 125 Networking Basics | 1 | 4 | 0 | 0 | 3 |

Programming

Students must select one of the following courses:

| | | | | | |
|----------------------------------|---|---|---|---|---|
| CSC 134 C++ Programming | 2 | 3 | 0 | 0 | 3 |
| CSC 139 Visual BASIC Programming | 2 | 3 | 0 | 0 | 3 |
| CSC 151 JAVA Programming | 2 | 3 | 0 | 0 | 3 |

Database Programming

Students must select one of the following courses:

| | | | | | |
|--------------------------------|---|---|---|---|---|
| DBA 112 Database Utilization | 2 | 2 | 0 | 0 | 3 |
| DBA 115 Database Applications | 2 | 2 | 0 | 0 | 3 |
| DBA 120 Database Programming I | 2 | 2 | 0 | 0 | 3 |

Technical Electives

Students must select 3 SHC from the following courses:

Computer Information Technology (A25260)
(previously Information Systems)

The Computer Information Technology curriculum is designed to prepare graduates for employment with organizations that use computers to process, manage, and communicate information. This is a flexible curriculum that can be customized to meet community information systems needs.

| | | | | | |
|--|---|---|---|----|---|
| CIS 245 Operating Systems – Multi-user | 2 | 3 | 0 | 0 | 3 |
| NOS 120 Linux/UNIX Single User | 2 | 2 | 0 | 0 | 3 |
| CSC 234 Advanced C++ Programming | 2 | 3 | 0 | 0 | 3 |
| CSC 239 Advanced Visual BASIC Programming | 2 | 3 | 0 | 0 | 3 |
| COE 111 Co-op Work Experience I | 0 | 0 | 0 | 10 | 1 |
| COE 112 Co-op Work Experience I | 0 | 0 | 0 | 20 | 2 |
| CTS 125 Presentation Graphics | 2 | 2 | 0 | 0 | 2 |
| CTS 240 Project Management | 2 | 2 | 0 | 0 | 3 |
| WEB 140 Web Development Tools | 2 | 2 | 0 | 0 | 3 |
| WEB 180 Active Server Pages | 2 | 2 | 0 | 0 | 3 |
| WEB 210 Web Design | 2 | 2 | 0 | 0 | 3 |

General Education Requirements

| | | | | | |
|--|---|---|---|---|---|
| ENG 111 Expository Writing | 3 | 0 | 0 | 0 | 3 |
| ENG 112 Argument-Based Research | 3 | 0 | 0 | 0 | 3 |
| OR | | | | | |
| ENG 113 Literature-Based Research | 3 | 0 | 0 | 0 | 3 |
| OR | | | | | |
| ENG 114 Professional Research & Reporting | 3 | 0 | 0 | 0 | 3 |
| COM 110 Introduction to Communications | 3 | 0 | 0 | 0 | 3 |
| OR | | | | | |
| COM 120 Interpersonal Communications | 3 | 0 | 0 | 0 | 3 |
| OR | | | | | |
| COM 231 Public Speaking | 3 | 0 | 0 | 0 | 3 |

Mathematics

Students must select a minimum of three (3) credit hours of approved mathematics courses from the list at the end of this section of the catalog.

Humanities/Fine Arts 3

Students must select a minimum of three (3) credit hours of approved humanities/fine arts courses from the list at the end of this section of the catalog.

Social/Behavioral Sciences 3

Students must select a minimum of three (3) credit hours of approved social/behavioral sciences courses from the list at the end of this section of the catalog.

Total Credit Hours 70

**Computer Information Technology
Certificates (C25260)**

**Computer Information Technology Certificate with a
Specialization in Technology Management (C25260-C5)**

Major and Related Course Requirements

| | Class | Lab | Hours Clinical | Work Exper. | Credits |
|--|-------|-----|-------------------|----------------|-----------|
| CIS 110 Introduction to Computers | 2 | 2 | 0 | 0 | 3 |
| CTS 125 Presentation Graphics | 2 | 2 | 0 | 0 | 3 |
| CTS 115 Information Systems Business Concepts | 3 | 0 | 0 | 0 | 3 |
| CTS 240 Project Management | 2 | 2 | 0 | 0 | 3 |
| CTS 285 Systems Analysis and Design | 3 | 0 | 0 | 0 | 3 |
| CTS 289 System Support Project | 1 | 4 | 0 | 0 | 3 |
| Total Credit Hours | | | | | 18 |