

## COMPUTER INFORMATION SYSTEMS

### Computer Information Systems Certificate

#### PROGRAM DESCRIPTION

The Computer Information Systems One-Year Certificate is designed to prepare students with network administration, computer support, web design, computer programming, general problem-solving, and troubleshooting skills necessary to obtain entry-level work, or continue towards their AAS in Computer Information Systems.

#### PROGRAM OUTCOMES

Students who successfully complete the one-year certificate will:

1. Develop problem-solving skills for working with software, hardware, and networks through programming logic and hands-on lab simulations
2. Use common Microsoft Office applications
3. Demonstrate practical experience with a variety of operating systems
4. Work with typical hardware configurations
5. Demonstrate the skills necessary for entry- or mid-level employment in the Computer Information Systems field

#### CAREER CONSIDERATIONS

This one-year certificate program prepares students for employment in entry-level information technology (IT) employment. The certificate builds skills in many areas critical to the success of employment in IT. Course emphasis is placed on current concepts of computer programming, server administration, database, Cisco networking, and general business-required education. Students should complete the classes in the order listed. If the classes do not fit within their personal schedule, please see a faculty advisor for help. The certificate entails 47-48 Credit Hours, depending on the accounting course selected by the student. The CIS One-Year Certificate is also a completion certificate. All courses in the certificate are found in the CIS AAS Degree.

#### PROGRAM COURSE REQUIREMENTS

##### Year One

CIS 111	Computer Systems Configuration	4
CIS 120	Introduction to Computer Information Systems	4
CIS 122	Orientation to Programming	4
CIS 133	Introduction to Programming I	4
CIS 140M	Introduction to Microsoft Operating Systems	4
or CIS 140L	Introduction to Linux Operating System	4
CIS 151C	Networking Essentials	4
CIS 233	Introduction to Programming II	4
CIS 240M	Installing & Configuring Microsoft Windows Server	4
CIS 275	Introduction to Database Management Systems I	4
CIS 279M	Microsoft Windows Server Administration I	4
MTH 095	Intermediate Algebra (or higher)	4
PSY 101	Psychology of Human Relations	3
WR 121	Academic Composition*	4

**Total Credits 51**

\* A grade of C or better must be attained in the courses indicated.