

COMPUTER INFORMATION SYSTEMS

PROGRAM DESCRIPTION

The Computer Information Systems (CIS) program is a two-year sequence of classes designed to prepare students for employment in the computer area as an entry-level network administrator, computer support person, web designer, or computer programmer, while developing general problem-solving and troubleshooting skills that can be applied to networking, server, computer, web, and business programming environments. The CIS program has multiple educational and career pathways and includes the following degrees and certificates:

Pathway Certificate (12 credit minimum)

- Cisco Networking Security Support Technician
- Microsoft Networking Support Technician
- Server Administrator
- Junior Database Administrator
- Junior Web Developer
- Junior Programmer

One-Year Certificate (51 credit minimum)

- Computer Information Systems

AAS Degree (95 credit minimum)

- Computer Information Systems
- Cybersecurity

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Cisco Networking Security Support Technician Pathway Certificate

PROGRAM DESCRIPTION

The Cisco Networking Security Support Technician is designed to prepare students with analyzing, designing, and implementing network systems, 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 Certificate will:

1. Analyze, design, implement and support basic network systems such as Cisco routers and switches
2. Exhibit problem-solving and critical thinking skills in an individual and/or team environment

CAREER CONSIDERATIONS

Students completing the courses necessary to earn the Cisco Networking Security Support Technician certificate will possess the skills needed to analyze, design, implement, and support Cisco routers and switches in a small- to medium-sized standalone or domain-based environment; and exhibit problem-solving and critical thinking skills in an individual and/or team environment.

PROGRAM COURSE REQUIREMENTS

Year One

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|-------------|---|---|
| CIS 140M | Introduction to Microsoft Operating Systems | 4 |
| or CIS 140L | Introduction to Linux Operating System | 4 |
| CIS 151C | Networking Essentials | 4 |
| CIS 152C | Introduction to Basic Switching and Routers | 4 |
| CIS 240M | Installing and Configuring Microsoft Windows Server | 4 |
| CIS 285B | Advanced Network Device Security (CCNA Security) | 4 |

Total Credits 20