

**COMPUTER & INFORMATION TECHNOLOGY**
**AAS DEGREE**

The **Computer and Information Technology degree** is designed to provide students with a comprehensive understanding of key technical areas including Computers, Networking, Servers, VoIP, Wireless, Cloud, and Security. This program prepares students for transfer, employment, and preparation for industry certification exams (CompTIA A+, CompTIA Security+, Cisco CCNA, Microsoft MCSA).

**Field of Study Code: CIT.AAS.CIT**

**Program Requirements.....35 to 36**

Cit	1100	IT Fundamentals.....	3
<b>OR</b>			
Cit	1120	Network Addressing Fundamentals.....	2
Cit	1111	Computer and Hardware Maintenance .....	3
Cit	1112	Operating System Maintenance .....	3
Cit	1121	Introduction to Networks.....	3
Cit	1122	Routing and Switching Essentials.....	3
Cit	1123	Scaling Networks, Security, & Automation.....	3
Cit	1450	Intro to Linux/Unix Operating Systems.....	3
<b>OR</b>			
Cis	1450	Intro to Linux/Unix Operating Systems.....	3
Cit	1640	Network Security Fundamentals.....	3
<b>OR</b>			
Cit	2251	Enterprise Network Security .....	3
Cit	2150	Wireless Network Administration.....	3
Cit	2410	Enterprise Internet Telephony .....	3
Cit	1710	Introduction to Servers .....	3
Cit	2710	Computer Information Technology Capstone .....	3

**Program Electives.....10 to 11**

Select 10 or 11 credits from any 1000 or 2000 level CIT course. Students taking CIT-1120 require 11, students taking CIT-1100 require 10.

**General Education.....18**

(In addition to the courses listed above.)

**Total Credits Required.....64 to 65**
**AAS DEGREE**

The **Cybersecurity and Defense degree** provides a foundation in the principles of cybersecurity. Content covers functions of networks, hardware, and operating systems. This program prepares students for employment in entry level positions in information systems.

**Field of Study Code: CIT.AAS.CYBER**

**Program Requirements.....36**

Cit	1121	Introduction to Networks.....	3
Cit	1122	Routing and Switching Essentials.....	3
Cit	1123	Scaling Networks, Security, & Automation.....	3
Cit	1450	Intro to Linux/Unix Operating Systems.....	3
<b>OR</b>			
Cis	1450	Intro to Linux/Unix Operating Systems.....	3
Cit	1640	Network Security Fundamentals.....	3
Cit	1710	Introduction to Servers .....	3
Cit	2173	Virtualization: Install, Configure, Manage .....	3
Cit	2251	Enterprise Network Security.....	3
Cit	2510	Advanced Server Administration .....	3
Cit	2511	Advanced Server Configuration .....	3
Cit	2640	Ethical Hacking.....	3
Cit	2651	Computer Forensics I .....	3

**Program Electives.....10**

Select 10 credits from any 2000-level CIT courses. (In addition to the required courses listed above.)

**General Education.....18**

(In addition to the courses listed above.)

**Total Credits Required.....64**
**CERTIFICATE**

The **Computer and Internetworking Technologies certificate** requires 35 credits in courses listed below.

**Field of Study Code: CIT.CER**

**Program Requirements.....36**

Cit	1100	IT Fundamentals.....	3
Cit	1111	Computer and Hardware Maintenance .....	3
Cit	1112	Operating System Maintenance .....	3
Cit	1116	Network Essentials.....	3
Cit	1121	Introduction to Networks .....	3
Cit	1122	Routing and Switching Essentials.....	3
Cit	1123	Scaling Networks, Security, & Automation.....	3
Cit	1124	Connecting Networks.....	3
Cit	1640	Network Security Fundamentals.....	3
Cit	1645	Internet Telephony .....	3
Cit	2251	Enterprise Network Security.....	3
Cit	2651	Computer Forensics I .....	3

**CERTIFICATE**

The **Cisco Certified Network Associate (CCNA) Security certificate** meets the need of today's IT professionals responsible for network security. It validates the knowledge required to install, troubleshoot, and monitor Cisco security network devices. In addition, CCNA Security confirms an individual's skills for job roles such as network security specialist and security administrator. Upon successful completion of the certificate, students are eligible to take the Cisco Certified Network Associate (CCNA) exam. This certificate requires 15 credits in the courses listed below.

**Field of Study Code: CIT.CER.CCNA**

<b>Total Credits Required .....</b>	<b>15</b>
Cit 1121 Introduction to Networks .....	3
Cit 1122 Routing and Switching Essentials .....	3
Cit 1123 Scaling Networks, Security, & Automation.....	3
Cit 1124 Connecting Networks.....	3
Cit 2251 Enterprise Network Security .....	3

**CERTIFICATE**

Upon successful completion of the **CIT CCNA Certificate**, students will have gained hands-on experience installing, operating, configuring, troubleshooting and securing routing and switching networks. Additionally, these courses prepare student for the IT industry certification Cisco Certified Network Associate (CCNA).

**Field of Study Code: CIT.CER.CITCCNA**

<b>Total Credits Required .....</b>	<b>9</b>
Cit 1121 Introduction to Networks.....	3
Cit 1122 Routing and Switching Essentials .....	3
Cit 1123 Scaling Networks, Security, & Automation.....	3

**CERTIFICATE**

**CIT Networking Professional certificate** provide students with advanced knowledge and hands-on experience operating, configuring, troubleshooting and securing networks. Additionally, these courses prepare student for the industry certification Cisco Certified Network Professional (CCNP).

**Field of Study Code: CIT.CER.NETPRO**

<b>Total Credits Required .....</b>	<b>15</b>
Cit 1121 Introduction to Networks.....	3
Cit 1122 Routing and Switching Essentials .....	3
Cit 1123 Scaling Networks, Security, & Automation.....	3
Cit 2241 Enterprise Network Core Technologies.....	3
Cit 2242 Enterprise Advanced Routing & Services .....	3

**CERTIFICATE**

The **System Support Specialist certificate** prepares students to work as Computer and Network Support Specialists. Upon completion, students are prepared for the following industrial certifications: CompTIA A+, CompTIA Net+, and CompTIA Security+. This certificate requires **17** credits in the courses listed below.

**Field of Study Code: CIT.CER.SYS**

<b>Total Credits Required .....</b>	<b>18</b>
Cit 1100 IT Fundamentals.....	3
Cit 1111 Computer and Hardware Maintenance .....	3
Cit 1112 Operating System Maintenance .....	3
Cit 1116 Network Essentials.....	3
Cit 1121 Introduction to Networks.....	3
Cit 1640 Network Security Fundamentals.....	3

**CERTIFICATE**

The **CompTIA A+ and Network+ PC Technician certificate** prepare students for CompTIA A+ and Network+ technician exams. This certificate is designed to provide student a broad exposure to computer systems as well as system networking. This certificate requires **11** credits in the courses listed below.

**Field of Study Code: CIT.CER.TECH**

<b>Total Credits Required .....</b>	<b>12</b>
Cit 1100 IT Fundamentals.....	3
Cit 1111 Computer and Hardware Maintenance .....	3
Cit 1112 Operating System Maintenance .....	3
Cit 1116 Network Essentials.....	3

