

Information Technology and Careers

AWARDS

INFORMATION TECHNOLOGY SUPPORT A.A.S.	60 cr
NETWORK TECHNOLOGY AND SECURITY A.A.S.	60 cr
ADVANCED NETWORK SECURITY CERTIFICATE	15 cr
ADVANCED NETWORK TECHNOLOGY CERTIFICATE	15 cr
IP TELEPHONY CERTIFICATE	15 cr
IT HELP DESK CERTIFICATE	15 cr
MICROSOFT CERTIFIED IT PROFESSIONAL CERTIFICATE	15 cr

A.A.S., INFORMATION TECHNOLOGY SUPPORT (60 CREDITS)

Information Technology Support	44 cr
Liberal Arts	16 cr

PURPOSE

The Information Technology Support program trains workers for employment providing service to computer users, including hardware and software installation and technical assistance. Coursework includes experiences and instruction in communication and problem-solving skills, as well as technical training with hardware, software, operating systems, applications software, and computer network operations. Designed to prepare graduates to select, maintain, configure, and oversee installation of business-oriented personal computers, software and to support and train users. This program provides the student the opportunity to achieve the following industry certifications; Microsoft Office Specialist (MOS), Microsoft Certified Application Specialist (MCAS), Microsoft Technology Associate, CompTIA's A+, CompTIA's Linux+ and Microsoft Certified Technical Specialist (MCTS).

INFORMATION TECHNOLOGY SUPPORT CURRICULUM 44 CREDITS

<input type="checkbox"/> BUS 1100 Introduction to Business Applications and Computing	4
<input type="checkbox"/> ITC 1000 Computer Careers	1
<input type="checkbox"/> ITC 1200 Computer Security Awareness	1
<input type="checkbox"/> ITC 1400 IT Fundamentals	3
<input type="checkbox"/> ITC 1480 Linux Essentials	3
<input type="checkbox"/> ITC 2000 PC Hardware and Software (A+)	3
<input type="checkbox"/> ITC 2100 IT Career Success Skills and Strategies	2
<input type="checkbox"/> ITC 2189 Information Technology Careers Internship	3
<input type="checkbox"/> ITC 2410 Installing and Configuring Windows Clients	3
<input type="checkbox"/> ITC 2420 Configuring Windows Devices	3
<input type="checkbox"/> ITC 2430 Installing and Configuring Windows Servers	3
<input type="checkbox"/> ITC 2440 Windows Server Identity & Directory Services	3
<input type="checkbox"/> ITC 2480 Administering Linux Servers	3
<input type="checkbox"/> ITC 2515 Introduction to Networks and Routing and Switching Essentials (CCNA 1/2)	6
<input type="checkbox"/> ITC 2900 Information Technology Careers Capstone	3

LIBERAL ARTS

16 CREDITS

<input type="checkbox"/> ENG 1108 Writing and Research Skills	4
<input type="checkbox"/> COMM 1100 Interpersonal Communication OR COMM 1110 Public Speaking OR COMM 2230 Small Group Communication OR COMM 2240 Intercultural Communication	3
<input type="checkbox"/> Math or Science with Lab (MnTC Goal 3 and 4)	3
<input type="checkbox"/> History/Social Science/Behavioral Science (MnTC Goal 5)	3
<input type="checkbox"/> Humanities/Fine Arts/Literature (MnTC Goal 6)	3

A.A.S., NETWORK TECHNOLOGY AND SECURITY
 (60 CREDITS)

Network Technology and Security 44 cr
 Liberal Arts 16 cr

PURPOSE

This program prepares students for rewarding careers in the dynamic field of computer networking. The continued growth of the Internet, wide area networks (WANs) and local area networks (LANs) requires people with the broad knowledge and skills needed to design, manage, secure and troubleshoot sophisticated information storage, retrieval and presentation systems.

PROGRAM INFORMATION

This educational program covers the workings of networks from an end-user’s desktop to a remote server that could be located anywhere in the world. The curriculum has been designed to encompass many of the same competencies that are covered by several recognized industry certifications, for example CompTIA’s A+, Server+, Network+, Linux+ and Security+; Cisco CCNA, Cisco Security; and Microsoft Certified Information Technology Professional MCITP, so students will gain the knowledge and skills that are recognized as important for employment in the field.

NETWORK TECHNOLOGY AND SECURITY CURRICULUM 44 CREDITS

- ITC 2000 PC Hardware and Software (A+) 3
- ITC 2100 IT Career Success Skills and Strategies 2
- ITC 2189 Information Technology Careers Internship 3
- ITC 2300 Information Technology Services and Applications 3
- ITC 2410 Installing and Configuring Windows Clients 3
- ITC 2430 Installing and Configuring Windows Servers 3
- ITC 2440 Windows Server Identity & Directory Services 3
- ITC 2480 Administering Linux Servers 3
- ITC 2515 Introduction to Networks and Routing and Switching Essentials (CCNA 1/2) 6
- ITC 2535 Scaling and Connecting Networks (CCNA 3/4) 6
- ITC 2610 CCNP 1 Network Switching 3
- ITC 2830 Implementing Cisco Network Security (CCNA Security) . . . 3
- ITC 2900 Information Technology Careers Capstone 3

LIBERAL ARTS 16 CREDITS

- ENG 1108 Writing and Research Skills 4
- COMM 1100 Interpersonal Communication OR
 COMM 1110 Public Speaking OR
 COMM 2230 Small Group Communication OR
 COMM 2240 Intercultural Communication 3
- Math or Science with Lab (MnTC Goal 3 and 4) 3
- History/Social Science/Behavioral Science (MnTC Goal 5) 3
- Humanities/Fine Arts/Literature (MnTC Goal 6) 3

ADVANCED NETWORK SECURITY CERTIFICATE

(15 CREDITS)

PURPOSE

This certificate program provides comprehensive knowledge and skills needed for I.T. professionals who have network security and information assurance responsibilities. Courses cover the objectives encompassed by industry standards including Security+, Cisco IOS and PIX firewalls, ethical hacking, VPNs, intrusion detection, incident response, and overall security policy and practices. Participants must have CCNA certification or three years of experience as a network technician, administrator or analyst in a Cisco environment.

ADVANCED NETWORK SECURITY CERTIFICATE 15 CREDITS

- ITC 2480 Administering Linux Servers3
- ITC 2820 Information Systems Security Advanced.....3
- ITC 2830 Implementing Cisco Network Security (CCNA Security) ...3
- ITC 2840 Advanced Network Security3
- ITC 2900 Information Technology Careers Capstone.....3

ADVANCED NETWORK TECHNOLOGY CERTIFICATE

(15 CREDITS)

PURPOSE

Provides I.T. employees with knowledge and skills needed to assume additional or higher level responsibilities for a large networked environment. The curriculum includes essential security concepts that are critical for all I.T. team members and provides flexibility for various areas of current competence and areas of emphasis. Participants must have CCNA certification or three years of experience as a network technician administrator, or analyst in a Cisco environment.

ADVANCED NETWORK TECHNOLOGY CERTIFICATE 15 CREDITS

- ITC 2480 Administering Linux Servers3
- ITC 2830 Implementing Cisco Network Security (CCNA Security) ...3
- ITC 2710 Wireless LAN Technology (CCNA Wireless)3
- ITC 2620 CCNP Network Routing3
- ITC 2630 CCNP Network Troubleshooting3

IP TELEPHONY CERTIFICATE

(15 CREDITS)

PURPOSE

IP Telephony is to the new generation of telecommunications as electricity replacing the steam engine was to the Industrial Revolution. This technology holds explosive potential as voice; data and video converge onto a single platform, unifying communications in a way that will transform every aspect of our lives, our businesses and our society.

IP TELEPHONY CERTIFICATE 15 CREDITS

- ITC 2720 Implementing Cisco Collaboration Devices.....3
- ITC 2730 Quality of Service (QoS)3
- ITC 2740 Cisco IP Telephony: Integration (Part I).....3
- ITC 2750 Cisco IP Telephony: Integration (Part II)3
- ITC 2760 IP Telephony: Enterprise Planning and Design.....3

I.T. HELP DESK CERTIFICATE

(15 CREDITS)

PURPOSE

Provides the knowledge and skills for employment in entry level positions that support end users of technology in a networked environment. Students will learn the essential components and functioning of the hardware and software used in PC clients, servers and network hardware. In addition, skills in specific desktop applications, interpersonal relations and customer service will be covered.

IP HELP DESK CERTIFICATE 15 CREDITS

- ITC 2000 PC Hardware and Software (A+)3
- ITC 2510 Introduction to Networks (CCNA 1)3
- ITC 2410 Installing and Configuring Windows Clients.....3
- ITC 2420 Configuring Windows Devices3
- BUS 1102 Principles of Customer Service OR
BUS 1125 Management of Customer Service OR
ITC 2189 Information Technology Careers Internship3

MICROSOFT CERTIFIED I.T. PROFESSIONAL (MCITP) CERTIFICATE

(15 CREDITS)

PURPOSE

Microsoft has dominated business computing for many years now. This certificate will provide the student necessary skills to compete in today's business environment, and will provide the student the opportunity to achieve MCITP certification.

MICROSOFT CERT. I.T. PROFESSIONAL CERTIFICATE 15 CREDITS

<input type="checkbox"/> ITC 2410 Installing and Configuring Windows Clients	3
<input type="checkbox"/> ITC 2420 Configuring Windows Devices	3
<input type="checkbox"/> ITC 2430 Installing and Configuring Windows Servers	3
<input type="checkbox"/> ITC 2440 Windows Server Identity & Directory Services	3
<input type="checkbox"/> ITC 2450 Windows Server Networking	3