

Information Technology and Careers

A.A.S., Information Technology Support (60 CREDITS)

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)

ITC 1000 Computer Careers	1 cr
ITC 1100 Introduction to Computers	3 cr
ITC 1150 Introduction to Microsoft Access	1 cr
ITC 1200 Computer Security Awareness	1 cr
ITC 1400 IT Fundamentals	3 cr
ITC 1480 Linux Essentials	3 cr
ITC 2000 PC Hardware and Software (A+)	3 cr
ITC 2100 IT Career Success Skills and Strategies	2 cr
ITC 2189 Information Technology Careers Internship	3 cr
ITC 2410 Configuring Windows Clients	3 cr
ITC 2420 Managing and Maintaining Windows Clients	3 cr
ITC 2430 Installing and Configuring Windows Servers	3 cr
ITC 2440 Administering Windows Servers	3 cr
ITC 2480 Administering Linux Servers	3 cr

ITC 2515 Introduction to Networks and Routing and Switching Essentials (CCNA 1/2), or 6 cr

ITC 2510 Networking Fundamentals (CCNA 1) AND 3 cr

ITC 2520 Intro to Router Configuration (CCNA 2) 3 cr

IITC 2900 Information Technology Careers Capstone 3 cr

Liberal Arts (16 credits)

ENG 1108 Writing and Research Skills 4 cr

COMM 1100, 1110, 2230 or 2240 3 cr

Math or Lab Science, one course 3 cr
(See Goal 3 and 4 of the MnTC)

Social Science, one course 3 cr
(See Goal 5 of the MnTC)

Humanities/Fine Arts/Literature, one course 3 cr
(See Goal 6 of MnTC)

A.A.S., Network Technology and Security (60 CREDITS)

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 is a rigorous educational program that 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 Comp TIA'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 cr
ITC 2100 IT Career Success Skills and Strategies	2 cr
ITC 2300 IT Services and Apps	3 cr
ITC 2480 Administering Linux Operating Systems	3 cr
ITC 2410 Configuring Windows Clients	3 cr
ITC 2430 Installing and Configuring Windows Servers	3 cr
ITC 2440 Administering Windows Servers	3 cr
ITC 2510 CCNA1 Intro to Networks	3 cr
ITC 2520 Routing and Switching Essentials(CCNA 2)	3 cr
ITC 2535 Scaling and Connecting Networks(CCNA3/4) or	6 cr
ITC 2530 Scaling Networks (CCNA 3) and	3 cr
ITC 2540 Connecting Networks (CCNA 4)	3 cr
ITC 2610 CCNP 1 Network Switching	3 cr
ITC 2720 Implementing Cisco Collaboration Devices	3 cr
ITC 2830 Implementing Cisco IOS Network Security (CCNA Security)	3 cr
ITC 2900 Information Technology Careers Capstone	3 cr
BUS 1102 Principles of Customer Service or	
BUS 2320 Project Management and Planning Skills or	
ITC 2189 Computer Network Technology Internship	3 cr

Liberal Arts	(16 credits)
ENG 1108 Writing and Research Skills	4 cr
COMM 1100, 1110, 2230, or 2240	3 cr
Math or Science with Lab (See Goal 3 or Goal 4 of MnTC)	3 cr
History/Social Science/Behavioral Science (See Goal 5 of MnTC)	3 cr
Humanities/Fine Arts/Literature (See Goal 6 of MnTC)	3 cr

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.

Security Curriculum	(15 credits)
ITC 2480 Administering Linux Operating Systems	3 cr
ITC 2820 Information Systems Security Advanced	3 cr
ITC 2830 Implementing Cisco IOS Network Security (CCNA Security)	3 cr
ITC 2840 Advanced Network Security	3 cr

ITC 2900 Information Technology Careers Capstone	3 cr
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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 Curriculum	(15 credits)
ITC 2480 Administering Linux Operating Systems	3 cr
ITC 2830 Implementing Cisco IOS Network Security (CCNA Security)	3 cr
ITC 2710 Wireless LAN Technology (CCNA Wireless)	3 cr
ITC 2620 CCNP Network Routing	3 cr
ITC 2630 CCNP Network Troubleshooting	3 cr

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 Curriculum	(15 credits)
ITC 2720 Implementing Cisco Collaboration Devices	3 cr
ITC 2730 Quality of Service (QoS)	3 cr
ITC 2740 Cisco IP Telephony: Integration (Part I)	3 cr
ITC 2750 Cisco IP Telephony: Integration (Part II)	3 cr
ITC 2760 IP Telephony: Enterprise Planning and Design	3 cr

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.

I.T. Help Desk Curriculum (15 credits)

ITC 2000 PC Hardware and Software (A+)	3 cr
ITC 2510 Network Basics (CCNA 1)	3 cr
ITC 2410 Configuring Windows Clients	3 cr
ITC 2420 Managing and Maintaining Windows Clients	3 cr
BUS 1102 Principles of Customer Service or BUS 1125 Management of Customer Service or ITC 2189 Information Technology Careers Internship	3 cr

Microsoft Certified I.T. Professional 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 Certified I.T. Professional Curriculum (15 credits)

ITC 2410 Configuring Windows Clients	3 cr
ITC 2420 Managing and Maintaining Windows Client	3 cr
ITC 2430 Installing and Configuring Windows Server	3 cr
ITC 2440 Administering Windows Server	3 cr
ITC 2450 Configuring Advanced Windows Server Services	3 cr

Office Technology Certificate

(15 CREDITS)

Purpose

This certificate is designed to prepare individuals to work in a variety of office settings that require knowledge of Microsoft Office computer skills.

Office Technology Certificate Curriculum (15 credits)

OSYS 1101 Keyboarding	2 cr
ITC 1110 Microsoft Word	3 cr
ITC 1130 Introduction to Excel	1 cr
ITC 1131 Intermediate Excel	1 cr
ITC 1135 PowerPoint	1 cr
ITC 1150 Introduction to Access	1 cr
ITC 1151 Intermediate Access	1 cr
ITC 1160 Project Management Software	2 cr
ENG 1130 Writing and Research for the Professions	3 cr

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2016-2017 CATALOG

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