

COMPUTER INFORMATION SYSTEMS -

NETWORK MANAGEMENT

ASSOCIATE OF APPLIED SCIENCE

Students in this program will develop a working knowledge of network administration, e-mail, the Internet, voice mail, network operating systems, network security, network applications, and basic knowledge of microcomputer installation and repair and the operation of a variety of software packages. Graduates may enter the workforce as a network manager, database administrator, hardware support specialist, software specialist, or as a specialist in the area of microcomputer sales and service.

The Associate of Applied Science degree, Technical Certificates, and Certificates of Proficiency are designed for employment purposes, and it should not be assumed that the degree or the courses in these programs can be transferred to another institution. While some institutions do accept some courses in A.A.S. programs, the general rule is that courses in A.A.S. degrees are not accepted in transfer toward bachelor's degrees unless that degree has been articulated with that specific institution. Students to whom transfer is important should get assurances in writing in advance from the institution to which they wish to transfer.

CURRICULUM - COMPUTER INFORMATION SYSTEMS - NETWORK MGMT (AAS)

CNWT	1434	*Cisco Networking Academy I	4
MCSE	1104	*Microsoft Client Operating Systems	4
DATA	1123	Fundamentals of Information Technology	3
ENGL	1113	Composition I	3
MATH	1133	Technical Math OR MATH 1143 College Algebra	3
CNWT	1444	**Cisco Networking Academy II	4
ELCT	2113	Intro to Data, Voice and Video Cabling	3
MCSE	1204	**Microsoft Server	4
CISS	2303	**Introduction to Visual Basic.net	3
ENGL	1213	Composition II OR Composition II for Industry	<u>3</u>

COMPLETION AWARD: *Technical Certificate* 34

CISS	2143	*Computer Security Fundamentals	3
CISS	2443	*Introduction to SQL	3
MCSE	2106	*Microsoft Network Infrastructure/Active Dir. Services	6
ELCT	2413	Computer Repair	3
CISS	2233	**Advanced Network Hardware	3
CISS	2133	**Introduction to UNIX and TCP/IP	3
CISS	2244	**Network Security +	4
CISS	2253	**Introduction to Java	3
PSYC	1113	General Psychology OR General Psychology for Industry	<u>3</u>

*Courses that are typically only offered in the fall

** Courses that are typically only offered in the spring

COMPLETION AWARD: *Associate of Applied Science* 65

CCNA - CISCO CERTIFIED NETWORKING ASSOCIATE

CERTIFICATE OF PROFICIENCY

This program prepares students to become certified in network design, installation, management, and repair of networks. Students learn important protocols associated with networking such as TCP/IP, Frame Relay, ISDN, OSPF, IGRP, EIGRP and Point to Point Protocol. Router configuration, LAN switching and segmentation are also studied. Students who complete the Cisco Networking Academy I, II and III should be prepared to take the CCNA Certification Exam (Cisco Certified Networking Associate).

CURRICULUM - CISCO CERTIFIED NETWORKING ASSOCIATE (CP)

CNWT 1434	Cisco Networking Academy I	4
CNWT 1444	Cisco Networking Academy II	4
CNWT 1436	Cisco Networking Academy III	6
COMPLETION AWARD:	<i>Certificate of Proficiency</i>	14

MCP (MICROSOFT PROFESSIONAL)

CERTIFICATE OF PROFICIENCY

This program prepares students to become a Microsoft Certified Professional. This program will focus on Microsoft client/server operating systems with emphasis placed on networking, installing, configuring, managing, monitoring, and troubleshooting in a Microsoft network infrastructure and directory services.

CURRICULUM - MCP (CP)

MCSE 1104	Microsoft Client Operating Systems	4
MCSE 1204	Microsoft Server	4
MCSE 2106	Microsoft Network Infrastructure/Active Directory Services	6
COMPLETION AWARD:	<i>Certificate of Proficiency - MCP</i>	14

COMPUTER PROGRAMMING

CERTIFICATE OF PROFICIENCY

This certificate prepares students with the necessary tools in programming to enhance their abilities to manage and support network administration. Programming skills in UNIX, Visual Basic, Java, and SQL Server give networking students an edge in managing networks.

CURRICULUM - COMPUTER PROGRAMMING (CP)

CISS 2133	Introduction to UNIX and TCP/IP	3
CISS 2303	Introduction to Visual Basic.net	3
CISS 2253	Introduction to Java	3
CISS 2443	Introduction to SQL	3
COMPLETION AWARD:	<i>Certificate of Proficiency</i>	12

NETWORK SECURITY
CERTIFICATE OF PROFICIENCY

This certificate prepares students to effectively safeguard and secure a network against hackers, intruders and anyone trying to gain access to a network that is not authorized to do so.

CURRICULUM – NETWORK SECURITY (CP)

CNWT 1434	Cisco Networking Academy I	4
CISS 2143	Computer Security Fundamentals	3
CISS 2244	Network Security +	4
COMPLETION AWARD: Certificate of Proficiency		11

COMPUTER REPAIR
CERTIFICATE OF PROFICIENCY

CURRICULUM – COMPUTER REPAIR (CP)

DATA 1123	Fundamentals of Information Technology	3
MCSE 1104	Microsoft Client Operating Systems	4
ELCT 2413	Computer Repair	3
COMPLETION AWARD: Certificate of Proficiency		10

COMPUTER REPAIR
TECHNICAL CERTIFICATE

This program prepares students to troubleshoot computer and interface circuits, test and repair digital equipment, and test and repair computer hardware.

CURRICULUM – COMPUTER REPAIR (TC)

1st Year – 1st Semester Credit Hours

CNWT 1434	CISCO Networking Academy I	4
MCSE 1104	Microsoft Client Operating Systems	4
DATA 1113	Fundamentals of Information Technology	3
MATH 1133	Technical Math	<u>3</u>
		14

1st Year – 2nd Semester Credit Hours

ENGL 1113	Composition I	3
ELCT 2413	Computer Repair	3
ELCT 2113	Introduction to Data, Voice, and Video Cabling	3
MCSE 1204	Microsoft Server	4
CISS 2143	Computer Security Fundamentals	<u>3</u>
		16

COMPLETION AWARD: Technical Certificate		30
--	--	-----------