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Computer Networking Certificate Outcomes and Curriculum Map

KEY

I = Introduce; R = Reinforce;

E = Emphasize

X = Extent to which outcome is addressed is not specified

PROGRAM MISSION STATEMENT:The Computer Network Certificate prepares students for success in the changing world of computer technology by providing both theoretical knowledge and hands-on application skills required to identify and perform multiple tasks that support computer networks. Graduates are able to implement, manage and troubleshoot existing computer networks and servers based on the Microsoft Windows platform. In addition, they are able to begin a career in Computer Networking at a number of entry-level positions. For example, employment as Network Technicians, Help Desk, and Technical Support Specialists can be obtained. Also, graduates can pursue CompTIA Certifications with their employer. The Computer Network Certificate program also provides a path for continuing education for graduates who decide to pursue an Associate Degree in Electronic Technology - Computer Network System Option.

OBJECTIVES	LEARNING OUTCOMES	PROGRAM CURRICULUM: SPECIFIC COURSES AND RELATIONSHIP TO OUTCOME								
		<i>Information Technology</i>	<i>Computer Systems Management</i>	<i>Computer Networks I</i>	<i>Network Operating Systems I</i>	<i>Computer Networks II</i>	<i>English Comp I</i>	<i>Applied Technical Math or higher</i>	<i>Tech Elective or Co-op Education</i>	
The objectives of the Computer Networking Certificate include to assist students in the development of:	The graduating student will be able to:	CTN110	CTN120	CTN201	CTN211	CTN222	ENG101			
1 a technical education that will enable them to resolve basic networking issues and to effectively communicate computer and network related technical information verbally, in writing, and in presentations.	1 Fluently utilize computer applications and technology to search for and obtain relevant information, through both traditional and electronic media.	I	I	R		E	X			X
	2 Analyze and interpret technical information to help make computer network decisions.	I	I/R	I/R	R	E				
	3 Competently and effectively produce, written text, oral messages, and multi-media presentations to identify problems and solutions related to Local Area Networks (LANs)	I	I	I/R	I	E				
2 A solid background in computer networking with a good balance between hardware and software skills, theoretical knowledge, and hands on skills, including basic computer repair, network administration, design and troubleshooting.	1 Design, build and troubleshoot hardware in a basic Local Area Network (LAN).			I	I	R				
	2 Install network operating system client and server software in a Windows environment.			I	R/E	I/R				
	3 Demonstrate skills in administering, configuring, and troubleshooting hardware and software used in Local Area Networks			I	R/E	I/R				

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	The graduating student will be able to:	CTN110	CTN120	CTN201	CTN211	CTN222	ENG101				
3 Computer Fluency Competencies The graduating student will be able to operate a computer using common Word processing software applications and to find and evaluate information on the Web while being mindful of ethical, legal and security issues relating to information technology.	1 Use the Internet and the Web to evaluate a subjects content.	I	I/R	R	R	E					
	2 Explain the ethical, legal and security issued relating to Information Technology.	I	I/R	R	E	R					
	3 Use a computer to create and manage files, as well as the use of various input, storage, and output devices.	I	R/E	R	E	R/E					
	4 Fluently utilize computer applications and technology to search for, navigate, obtain and present information through traditional and electronic media	I	R/E	R		E					
4 Critical Thinking Competencies The ability to evaluate, compare, analyze, critique, and synthesize information.	1 Research information relevent to the topic of inquiry	I	I/R	R	R	E					
	2 Evaluate the evidence and data relevant to the topic of inquiry	I	R	R							
	3 Develop a hypothesis or thesis by applying logical, scientific and/or quantatative reasoning		I	R		E					
	4 Apply logical, critical, and creative thought process to identify problems, make decisions, and develop solutions.		I	I/R	R	E					
5 Writing Competencies The graduating student will be able to produce clear and well-organized writing which responds appropriately to an assignment using standard American English.	1 Produce clear and well organized writing that responds appropriately to course assignment.	I	R	E		E					
	2 Competently produce written text, oral and multimedia presentations to satisfy a variety of contexts and effectively analyze, interpret, and communicate the product.	I	R/E	E		E					