PROGRAM OF STUDY

Computer Networking: Cybersecurity Certificate of Achievement

The Computer Networking: Cybersecurity – Certificate of Achievement will give the student a solid background in the field of Computer Security. The focus on Cybersecurity will provide the student with some of the basic skills needed for an entry-level career in Cybersecurity. The courses provide an overview of the entire field. Topics covered will include Cisco Security, Windows Operating System security, Linux security, Firewalls, Intruder Detection systems, Security policies and procedures, e-mail & Web security, and design and designing and building a secure computer network.

Program Outcomes:

OUTCOME 1:

Demonstrate the ability to locate technical resources to solve problems with networking hardware and software.

ASSESSMENT 1:

Given a Lab scenario students will use the Internet to solve various problems.

OUTCOME 2:

Demonstrate proficiency with various software packages to solve common networking problems using theories learned in the classroom to design and implement a workable solution.

ASSESSMENT 2:

Given a troubleshooting scenario use software tools to solve assigned problems.

OUTCOME 3:

Build and maintain secure networks.

ASSESSMENT 3:

Given various Network topologies and addressing schemes students will configure a secure network using Cisco routers and switches.

Career Opportunities in Computer Service Technology

Professional Services, Manufacturing & Defense, Finance and Insurance, Information, Health Care, Public Administration, and Retail Trade. Network Administrator, Computer Support/Help Desk Technician, Computer Information Systems Manager, and Network Technician.

Required Core		Units
CST C116	A+ Essentials Hardware	3.0
CST C128	Network+	3.0
CST C177	Configuring Microsoft Windows 8	3.0
CST C191	CompTIA Linux +	3.0
CST C201C	CCNA 1: Introduction to Networks	3.0
CST C230	Introduction to Security	3.0
Subtotal		**18.0**

Select 3 courses from the following:

CST C231	CompTIA Advanced Security Practitioner	3.0
CST C232	Ethical Hacking	3.0
CST C245	Exploring Computer Forensics	3.0
CST C248	Wireless Networking	3.0
CST C253	Cisco ASA, PIX, and Network Security	3.0

CST C258	Linux Networking and Security	3.0
CST C260	Certified Information Systems Security Professional	3.0
Subtotal		**9.0**

| **Total Units** | | **27** |