Certificate Program in Network Administration

This certificate is designed to provide students with skills in the areas of network design, local and wide area networks, networks, network operating systems, and networking administration. This certificate can lead to entry-level positions in network administration and help desk support.

First Semester

Course #	Title	Credits
CSC*101	Introduction to Computers (a)	3
CSC*126	Programming Logic & Design with Visual Basic	3
CST*130	Network Essentials I (a)	3
CST*210	Operating Systems (a)	3
Second Semester		
CST*163	Windows Server Administration (a)	3
CST*193	Introduction to TCP/IP (a)	3
CST*230	Network Essentials II (a)	3
CST*264	Unix/Linux Administration (a)	3
CST*270	Network Security Fundamentals (a)	3
	Total	27

(a) Prerequisite and/or co-requisite required.

Network Administration (Certificate) Program Abilities:

Upon successful completion of all courses in the program, the Computer Information Systems Network Administration student will have demonstrated the following abilities:

1. identify and select a LAN architecture based on a given set of requirements
2. identify and understand the function of each of the layers of the OSI model
3. describe the concept and function of a Virtual LAN and the associated protocols
4. identify the technologies used for WAN communications and determine when to use a given WAN technology
5. install, administer and maintain a Linux network
6. install, administer and maintain a Windows Server network
7. develop and implement a backup, recovery and disaster recovery plan for a network
8. install, maintain, administer and troubleshoot a network using the various TCP/IP protocols.