Department:

Computer Support Technology

Course Description:

This course provides an introduction to computer networking administration and maintenance. The course will examine typical network hardware, network architectures, data transmission, and popular network technologies as well as how communication layers and their protocols are used on a network. The course will also cover installing Novell NetWare, troubleshooting network problems, and ensuring the integrity and stability of a network.

Course Competencies:

Upon completion of the course, the student should be able to:

1. Explain the use of directory services
2. Explain directory components
3. Perform a simple file server installation
4. Perform custom file server installations
5. Set up various Windows client machines
6. Explain security concepts
7. Create organizational units
8. Create organizational units within other organizational units
9. Create users and groups
10. Assign users to groups
11. Create users with home directories
12. Assign user passwords
13. Change user passwords
14. Create user polices
15. Assign rights to various groups and organizational units
16. Set up a print server
17. Set up a network printer
18. Configure clients to print to a print server.
19. Set up a Web server
20. Create Web server clients
21. Set up an e-mail server
22. Create e-mail clients
23. Identify and describe workplace products and services
24. Demonstrate the safe use of tools and equipment
25. Organize a work space
26. Establish a work flow
27. State and apply the processes for handling decision making, problem solving, and management related tasks
28. Identify and explain how to deal with negative peer pressure
29. Identify potential health hazards created by technology in the work place
30. Explain the importance of developing sensitivity to cultural differences

Course Content:

B. Installing Windows Server 2008
C. Configuring the Windows Server 2008 Environment
D. Introduction to Active Directory and Account Management
E. Configuring, Managing, and Troubleshooting Resource Access
F. Configuring Windows Server 2008 Printing
G. Configuring and Managing Data Storage
H. Managing Windows Server 2008 Network Services
I. Deploying Internet Information Services and Certificate Authority
J. Configuring Remote Access Services
K. Windows Server 2008 Virtualization
L. Application and Data Provisioning
M. Securing Windows Server 2008
N. Server and Network Monitoring
O. Managing System Reliability and Availability

Learning Assessments:

Competencies will be assessed by assignments, case problems, quizzes, chapter tests, hands-on projects, lab assignments, a midterm test, and a final test. The tests may be in the objective or problem solving format.

Instructional Materials:


Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be
provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

On-Campus Students: At enrollment, any on campus student may complete a form that will allow them to self-identify any disability.

Off-Campus Regional Students: Self-identify your disability and accommodation needs with the Regional Coordinator and/or instructor, preferably prior to the first class meeting.

Online Students: Self-identify your disability and accommodation needs by contacting the Disabilities Coordinator. Students must provide their own programs to allow accessibility on their home computer.

Any student may also identify their disability by completing an online form located on the HCC homepage under Students Services/Resources/Disabilities. Questions should be directed to the Disabilities Coordinator.