Department:

Computer Support Technology

Course Description:

This course is 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 Windows Server and Linux Server, troubleshooting of network problems, and ensuring 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 and its components
2. Perform a simple and custom fileserver installation
3. Setup various Windows/Linux client machines
4. Explain security concepts
5. Create organizational units
6. Create and assign users and groups
7. Create users with home directories
8. Assign and change user passwords
9. Create user polices
10. Assign rights to various groups and organizational units
11. Set up a print server and configure clients to print
12. Set up a network printer
13. Set up a web server
14. Set up an email server and email clients
15. Demonstrate the safe use of tools and equipment
16. Apply the correct process for handling a decision making, problem solving, and / or management related task
17. Handle negative peer pressure
18. Identify potential health hazards created by technology in the work place
19. Develop sensitivity to cultural differences

Course Content:

A. Introduction to Windows Server 2008 and Linux Server
B. Installing Windows Server 2008 and Linux Server
C. Configuring The Windows Servers 2008 Environment
D. Introduction to Active Directory and Account Management
E. Configuring, Managing, and Troubleshooting Resource Access
F. Configuring Windows Server 2008 and Linux Server Printing
G. Configuring and Managing Data Storage
H. Managing Windows Server 2008 and Linux Server Network Services
I. Deploying Internet Information Services and Certificate Authority
J. Configuring Remote Access Services
K. Windows Server 2008 and Linux Server Virtualization
L. Application and Data Provisioning
M. Securing Windows Server 2008 and Linux Server
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 mid-term exam, and a final exam. Exams may be in 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.