COURSE DESCRIPTION:

Prerequisites: None  
Corequisites: None

This course covers the installation and administration of a Windows Server network operating system. Topics include managing and maintaining physical and logical devices, access to resources, the server environment, managing users, computers, and groups, and Managing/Implementing Disaster Recovery. Upon completion, students should be able to manage and maintain a Windows Server environment. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

LEARNING OUTCOMES:

Upon completion of this course, students will be able to:

a. Install and configure Windows Server 2008 and Active Directory  
b. Create and manage user, group, and computer accounts  
c. Manage access to Server Resources  
d. Implement Active Directory Domain Services  
e. Implement and manage Active Directory Rights Management Services  
f. Manage and Maintain a Windows Server Environment  
g. Manage and Implement Disaster Recovery Procedures

OUTLINE OF INSTRUCTION:

I. Overview and Implementation of Active Directory services  
   a. Design requirements and hierarchy  
   b. AD Schema

II. Installing Windows Server 2008 and Active Directory  
   a. Requirements and prerequisites  
   b. Installation and roles  
   c. Trust relationships  
   d. Siteplan, subnets, and managing replication  
   e. Global Catalog and FSMO roles

III. Active Directory Administration  
   a. Create and manage User, Group, and Computer accounts  
   b. Default, local, and Special Identify groups
IV. Security Planning and Group Policy
   a. Password security: enforcement and user education
   b. Organization Unit planning and delegation
   c. Group Policy architecture, container, and templates
   d. Management Console
   e. Configuring account and local policies
   f. Audit policies
   g. Application installation and packaging
   h. Managing Group Policy Objects

V. Maintenance, Troubleshooting, and Disaster Recovery
   a. Backup and Restore
   b. Monitoring – Event log, Reliability and Performance Monitor

VI. Configuring DNS and Securing Services
   a. Server types
   b. Zones and zone transfers
   c. DHCP integration
   d. PKI and certificates
   e. Certificate services (Certificate Authority or CA) installation
   f. Certificate management and revocation

REQUIRED TEXTBOOK AND MATERIALS:

Text to be assigned by the instructor each semester

STATEMENT FOR STUDENTS WITH DISABILITIES:

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 919-536-7207, ext. 1413 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1209.