

CIS 276 Server Administration

I. CIS 276 – Server Administration – 3 Semester Hours

II. Course Description

This course introduces network operating system administration. Topics included in this course are network operating system software installation, administration, monitoring, and maintenance; user, group, and computer account management; shared resource management; and server hardware management. Students gain hands-on experience in managing and maintaining a network operating system environment.

III. Prerequisite

IV. Textbook

Textbook: Microsoft Windows Server 2008 Administrator (70-646)

Publisher: JOHN WILEY & SONS

Author: Microsoft Press

V. Course Objectives

1. The students will be able to install and configure a network operating system
2. The student will be able to manage user, group, and computer accounts.
3. The student will be able to administer and manage server resources.

VI. General Instructional Objectives

The **cognitive objective** for this course is for each student to comprehend foundational knowledge of network security risks and methods of securing a computer network.

The **performance objective** of this course will be demonstrated through actual hands-on experience with a network server.

There are no **affective objectives** directly associated with this course.

VII. Course Content Outline

Module A – Managing And Maintaining The Operating System

- Network operating system installation
 - Selecting a network operating system
 - Verifying hardware compatibility
 - Performing an attended installation
 - Procedures for installing over a network and automating installation
- Administering, monitoring, and maintaining a network operating system
 - Network operating system administration tools
 - Remote administration of a server
 - Monitoring
 - Monitoring events
 - Monitoring processes and network activity
 - Monitoring performance
 - Backing up and restoring data
 - Backup tools
 - Procedures for backing up and restoring data
 - Maintaining the operating system
 - Types of operating system updates
 - Updating the operating system

- Automating updates

Module B - Managing User, Group, And Computer Accounts

- Tools for user, group, and computer accounts management
- Managing user accounts
 - User account types
 - Creating, modifying, and deleting user accounts
 - User account profiles and policies
- Managing group accounts
 - Group account types
 - Creating, modifying, and deleting group accounts
 - Built-in groups
- Managing computer accounts
 - Computer account types
 - Creating, modifying, and deleting computer accounts

Module C – Administering And Managing Server Resources

- File system security
 - Setting file system permissions
 - Determining effective permissions
- Shared folder security
 - Sharing folders
 - Setting shared folder permissions
- Managing printers
 - Managing print devices
 - Managing documents in the print queue
- Managing devices and peripherals
 - Operating system tools for managing devices
 - Managing installed devices
 - Device drivers
 - Installing new hardware through the operating system
- Managing Disks
 - Volume types
 - File systems
 - Disk management tools
 - Adding, partitioning, and formatting disks

VIII. Evaluation and Assessment

Evaluation and assessment will be determined by the instructor and specified on the instructor's class syllabus. Grades will be based upon following scale: A = 90 – 100%, B = 80 – 89%, C = 70 – 79%, D = 60 – 69%, and F = below 60%.

IX. Attendance

Students are expected to attend all classes for which they are registered. Students who are unable to attend class regularly, regardless of the reason or circumstance, should withdraw from that class before poor attendance interferes with the student's ability to achieve the objectives required in the course. Withdrawal from class can affect eligibility for federal financial aid.

X. Statement on Discrimination/Harassment

The College and the Alabama State Board of Education are committed to providing both employment and educational environments free of harassment or discrimination related to an individual's race, color, gender, religion, national origin, age, or disability. Such harassment is a

violation of State Board of Education policy. Any practice or behavior that constitutes harassment or discrimination will not be tolerated.

XI. Americans with Disabilities

The Rehabilitation Act of 1973 (Section 504) and the Americans with Disabilities Act of 1990 state that qualified students with disabilities who meet the essential functions and academic requirements are entitled to reasonable accommodations. It is the student's responsibility to provide appropriate disability documentation to the College. The ADA Accommodations Office is in FSC 305 (205-856-7731).