

MERCER COUNTY COMMUNITY COLLEGE

Division of Business and Technology

NET 122

Windows Server Operating System Administration

COURSE DESCRIPTION:

Students learn to install and configure the Windows Server Network OS, including overall administration, advanced file system topics, and active directory services. In addition, routing, remote access, network security, fault tolerance, and optimization of server and network resources are covered. The course includes an introduction to setting up an application server, and troubleshooting in a network environment is emphasized. Hands-on exercises reinforce certification exam objectives.

Text (s): **Reference Division Booklist**

Prerequisites: **NET 101 and NET 106 (295) or A+ Certification, NET 120
NET 104 (283) or Network+ Certification**

Credits: **3**

Lecture Hours: **2**

Studio/Lab Hours: **2**

**Food and Drink are strictly prohibited in classrooms as per Health and Safety Laws.
Students may not bring in chemicals of any kind without the appropriate MSD sheets**

Course Coordinator: **Jeff Weichert**

Latest Review: **Spring 2004**

I. COURSE DESCRIPTION

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The course is intended for those who support or administer Microsoft Windows Server or who are on the Microsoft Certified Systems Engineer Windows NT track.

This three-credit course uses a combination of lectures, demonstrations, discussions, online assignments, and hands-on labs.

II. PREREQUISITES

The following skills are required to complete the course successfully:

- Working knowledge of an operating system, such as Microsoft Windows version 3.x, Microsoft Windows 95, Microsoft Windows NT, and Microsoft Windows for Workgroups, Microsoft MS-DOS, or UNIX.
- Knowledge of basic computer hardware components, including memory, hard disks, CPUs, communication and printer ports, display adapters, and pointing devices.
- Working knowledge of major networking components, including clients, servers, local area networks (LANs), network adapter cards, drivers, protocols, and network operating systems.
- Proficiency using the Windows 95 or Windows NT interface, including the ability to use Windows Explorer to locate, create, and manipulate folders and files.
- Working knowledge of common Windows NT administrative tasks, including creating user and group accounts, assigning permissions, sharing folders, and auditing.
- Working knowledge of network and end-user support.

III. COURSE OBJECTIVES

At the completion of this course, with appropriate study, you will be able to:

- Install and Configure Windows 2000 Server
- Perform Windows 2000 Server Unattended Installation
- Use Windows 2000 File Systems
- Use Advanced File Systems
- Use Active Directory Services
- Administer Windows 2000 Server
- Administer Print Services
- Use Network Protocols and Services
- Understand Routing and Remote Access
- Implement Security, Encryption, and Authentication
- Monitor and Optimize the Network
- Set Up a Windows 2000 Application Server

IV. EVALUATION

Final grades are determined by a weighted average of midterm and final examinations, quizzes, laboratory assignments, homework assignments, class participation, and attendance. Your final grade in the course will be based on the following:

Class attendance and participation	10%
Homework assignments	15%
Laboratory assignments	15%
Quizzes	20%
Midterm examination	20%
Final examination	<u>20%</u>
	100%

II. Classroom Conduct Statement

It is the student's responsibility to attend all classes. If a student misses a class meeting for any reason, he/she is responsible for all content that is covered, for announcements made, and for acquiring any materials that may have been distributed in class. It is expected that students be on time for all classes. Students who walk into class after it has begun are expected to choose seats close to where they entered the room so that they do not disrupt the class meeting.

Students are expected to follow ordinary rules of courtesy during the class sessions. Engaging in private, side conversations during class time is distracting to other students and to the instructor. Leaving class early without having informed the instructor prior to class is not appropriate. Unless there is an emergency, leaving class and returning while the class is in session is not acceptable behavior. Disruptive behavior of any type, including sharpening pencils during class while someone is speaking, is not appropriate.

The college welcomes all students into an environment that creates a sense of community of pride and respect; we are here to work cooperatively and to learn together.

III. Academic Integrity Statement

A student who knowingly represents work of others as his/her own, uses or obtains unauthorized assistance in the execution of any academic work, or gives fraudulent assistance to another student is guilty of cheating. The penalty for violating the honor code is severe. (*See Student Handbook.*) Any student violating the honor code is subject to receive a failing grade for the course and will be reported to the Office of Student Affairs. If a student is unclear about whether a particular situation may constitute an honor code violation, the student should meet with the instructor to discuss the situation.

It is permissible to assist classmates in general discussions of computing techniques; general advice and interaction are encouraged. Each person, however, must develop his or her own solutions to the assigned homework and laboratory exercises. Students may not "work together" on graded assignments. Such collaboration constitutes cheating, unless it is a group assignment. A student may not use or copy (by any means) another's work (or portions of it) and represent it as his/her own.