

Course Outline

Fall 2005

Division: Information Technology	
Program/Dept: Network Design and Administration	
Course Number: NET 124	Credits: 5 Variable:
Course Title: Network OS 2	
Inst. Intent: 21 Vocational Preparatory	CIP: 11.0901
Fee: Yes	Type: Computer Lab Fee

Degree/Certificate Requirement: Yes	
Name of Degree/	Network Administration – Certificate/Cisco Alternative/AAS-T
Certificate Requirements: Programs	
Distribution Requirement for AA/AAS: Yes	
Transfer Status to 4-year institution: No	
If yes, please describe:	
Course Length: Based on 11 wks/qtr.	Class Size: 24
Course Contact Hours: 55	
Lecture: 55	Lab: Clinical: Other:
Prerequisite: Yes	If yes, please describe: NET 122 w/ 2.0 or better or concurrent enrollment in NET 122
Required Placement Tests: No	If yes, please describe:
Comments:	

Course Description:
This course will introduce you to Microsoft Windows 2003 Server through lectures, demonstrations, discussions, and hands-on labs. Students will learn attended and an unattended installation of Windows 2003 Server, and various file systems supported by Windows 2003. Students will learn how to install and administer Active Directory services and how to manage Active Directory objects. They will use Microsoft Management Console to monitor system performance, to administer Internet Information Services, and to administer user accounts, group accounts, and group policies. Students will also learn how to administer print services, install and administer network protocols and services such as virtual private networking, Routing and Remote Access Service, DHCP, WINS, and DNS. Students will learn how to back up data, implement disaster protection, and recover from a disaster. This class also provides students with the prerequisite knowledge and skills required for <i>Managing and Maintaining a Microsoft Windows Server 2003 Environment</i> test 70-290.

Course Outcomes/Learning Objectives:

- Installation and an unattended installation of Windows 2003 Server.
- Identify the various types of Windows 2003 file systems and their components, and perform common disk management tasks.
- Configure NTFS security and configure security for shared folders.
- Configure a Windows 2003 Server computer as a domain controller. Install and configure Active Directory services, and administer Active Directory objects.
- Create and administer various types of user accounts and group accounts. Administer group policies, and manage group policy objects.
- Implement and administer network printing, manage documents, and administer printers from a Web browser.
- Identify network protocols and services supported by Windows 2003 Server. Configure TCP/IP, DHCP, WINS, and DNS.
- Enable and configure Routing and Remote Access Service, and configure a RAS connection.
- Identify the various components of Windows 2003 security, and analyze security on a computer running Windows 2003 Server. Configure Certificate Services and file encryption.
- Manage hardware devices and their drivers. Configure UPS. Back up and restore data, implement disk disaster protection, and recover from a disaster.
- Monitor and optimize the performance of your hard disk. Monitor system performance. Install the SNMP service.
- Administer Internet Information Services. Configure Telnet services. Install and configure Terminal Services and Terminal Services licensing

SCCC General Education Outcomes and/or Related Instructional Outcomes (for technical courses) Met by Course: (list each outcome):

- Outcome 1. Think critically in reading and writing.
- A. Develop the attitudes that support problem solving and reasoning process.
 - B. To apply thinking skills.
- Outcome 6. Work and communicate effectively in groups.
- A. To demonstrate effective listening skills.
 - C. To integrate with a group effectively.

Topical Outline and/or Major Divisions

- Introduction to Windows2003
- Installing or Upgrading to Windows 2003
- Configuring the Windows 2003 Environment
- Managing Access to Resources by Using Groups
- Connecting Windows 2003–based Clients to Networks
- Creating and Managing User Accounts
- Providing Network Access to File Resources
- Managing Data by Using NTFS
- Configuring Printing
- Monitoring and Optimizing Performance in Windows 2003
- Configuring Windows 2003 for Mobile Computing
- Installing and Configuring Terminal Services
- Implementing Windows 2003 Clients
- Implementing Security in Windows 2003
- Configuring and Managing Disks
- Implementing Disaster Protection
- Implementing Windows 2003–based Servers

Course Requirements (Expectation of Students):

1. Attending class sessions
2. Reading as indicated by instructor
3. Completing course assignments and exams as indicated by instructor

Methods of Assessment/Evaluation:

Case/lab performance and written exams.

Required Text(s) and/or Materials:

As recommended by instructor.

Supplemental Text(s) and/or Materials:

As recommended by instructor.

Outline Developed by: Vince Offenback

Date: 10/00

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DC Shoemaker, R.M. Costello
Lisa Sandoval

Date: 10/00, 12/4/00, 2/1/01, 9/11/03,
10,23,03, 12/05
8/05