

**INVER HILLS COMMUNITY COLLEGE
INVER GROVE HEIGHTS, MINNESOTA**

COURSE OUTLINE

COURSE TITLE: Managing a Windows Server Environment
COURSE NUMBER: CNT 2410
CREDIT HOURS: 2 hours of lecture weekly
DEPARTMENT: Network and Computer Technology

CATALOG DESCRIPTION

CNT 2410

Managing a Windows Server Environment

2 credit hours – Two hours of lecture weekly; one term

Provides students with the knowledge and skills to manage accounts and resources in the dominant version of the Microsoft Windows Server™ environment. The course is intended for systems administrator and systems engineer candidates who are responsible for managing accounts and resources. These tasks include managing user, computer, and group accounts; managing access to network resources; managing printers; managing an organizational unit in a network based on Active Directory® service; and implementing group policy to manage users and computers.

Prerequisites: CNT 2401 or CNT 2402 or equivalent Windows OS experience

LEARNING OBJECTIVES

Upon completion of this course the student will be able to:

- a. After completing this course, students will be able to:
- b. Create and populate organizational units with user and computer accounts
- c. Manage user and computer accounts
- d. Create and manage groups
- e. Manage access to resources
- f. Implement printing
- g. Manage printing
- h. Manage access to objects in using organizational units
- i. Implement Group Policy
- j. Manage the user and computer environment by using Group Policy
- k. Audit accounts and resources

DIVISION OF SUBJECT MATTER

Major Topic

Time Allocation

1.0 Introduction to Microsoft Windows Server	5%
2.0 Administering Microsoft Windows Server	10%
3.0 Monitoring Microsoft Windows Server	5%
4.0 Backing Up and Restoring Data	10%
5.0 Maintaining the Operating System	10%
6.0 Working with User Accounts	10%
7.0 Working with Groups	10%
8.0 Working with Computer Accounts	10%
9.0 Sharing File System Resources	5%
10.0 Working with Printers	10%
11.0 Managing Device Drivers	5%

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12.0 Managing Disk Storage

10%

DETAILED COURSE OUTLINE

- 1.0 Introduction to Microsoft Windows Server
 - 1.1 The Windows Server Family
 - 1.2 Installing Windows Server
 - 1.3 Configuring Windows Server
 - 1.4 Creating a Domain Controller
 - 1.5 An Active Directory Primer

- 2.0 Administering Server
 - 2.1 Using Microsoft Management Console
 - 2.2 Managing Servers with Remote Desktop for Administration
 - 2.3 Using Remote Assistance

- 3.0 Monitoring Server
 - 3.1 Server Monitoring Practices
 - 3.2 Using Event Viewer
 - 3.3 Using Task Manager
 - 3.4 Using the Performance Console

- 4.0 Backing Up and Restoring Data
 - 4.1 Understanding Backups
 - 4.2 Using Server Backup

- 5.0 Maintaining the Operating System
 - 5.1 Windows Operating System Updates
 - 5.2 Using Microsoft Baseline Security Analyzer
 - 5.3 Using Windows Update
 - 5.4 Deploying Updates on a Network
 - 5.5 Using Microsoft Software Update Services
 - 5.6 Administering Software Licenses

- 6.0 Working with User Accounts
 - 6.1 Understanding User Accounts
 - 6.2 Planning User Accounts
 - 6.3 Working with Local User Accounts
 - 6.4 Working with Domain User Accounts
 - 6.5 Creating Multiple User Objects
 - 6.6 Managing User Profiles
 - 6.7 Monitoring and Troubleshooting User Authentication

- 7.0 Working with Groups
 - 7.1 Understanding Groups
 - 7.2 Using Local Groups
 - 7.3 Using Active Directory Groups
 - 7.4 Default Groups
 - 7.5 Creating and Managing Group Objects
 - 7.6 Automating Group Management

- 8.0 Working with Computer Accounts
 - 8.1 Understanding Computer Objects
 - 8.2 Adding Computers to a Domain

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- 8.3 Managing Computer Objects
- 8.4 Troubleshooting Computer Accounts

- 9.0 Sharing File System Resources
 - 9.1 Understanding Permissions
 - 9.2 Sharing Folders
 - 9.3 Managing Shared Folders
 - 9.4 Using NTFS Permissions
 - 9.5 Administering Internet Information Services

- 10.0 Working with Printers
 - 10.1 Understanding the Printer Model
 - 10.2 Deploying a Shared Printer
 - 10.3 Configuring Printer Properties
 - 10.4 Monitoring Printers
 - 10.5 Troubleshooting Printers

- 11.0 Managing Device Drivers
 - 11.1 Understanding Device Drivers
 - 11.2 Creating a Driver Maintenance Strategy
 - 11.3 Using the Add Hardware Wizard
 - 11.4 Using Device Manager
 - 11.5 Using Control Panel
 - 11.6 Troubleshooting Devices and Drivers

- 12.0 Managing Disk Storage
 - 12.1 Understanding Server Disk Storage
 - 12.2 Using Disk Management
 - 12.3 Adding Storage
 - 12.4 Managing Disk Storage

TEXTBOOKS

TITLE: 70-290 Managing and Maintaining a Microsoft Windows Server 2003 Environment
AUTHOR: Craig Zacker
PUBLISHER: McGraw-Hill
ISBN: 0-07-294487-0