

COURSE TITLE AND NUMBER: MICROSOFT WINDOWS SERVER IT 121

# North Central Michigan College

NCMC MASTER COURSE SYLLABUS

Last Date Revised: 11/29/04

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DIVISION/AREA: Business and Technology

DEPARTMENT: Information Technologies

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DIVISION DIRECTOR: Robert Marsh, Ph.D., P.E.

ORIGINATOR: Fred R. Harrington, Jr.

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AREA DEAN: Timothy Dykstra, Ph.D.

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TOTAL HOURS OF INSTRUCTION: LECTURE: 1.5 LAB: 0 TOTAL CONTACT HOURS: 26.25

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COURSE NUMBER: IT 121

CREDIT HOURS: 1.5

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COURSE TITLE: Microsoft Windows Server

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PREREQUISITE(S)/COREQUISITE(S)/ADVISORY:

PREREQUISITES: IT 111

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CATALOG DESCRIPTION: IT 121, Microsoft Windows Server, Introduces to Microsoft Windows Server operating systems through exploration, demonstrations, discussions, and hands-on lab exercises. Covers installations, administration and troubleshooting problems with the operating system in a variety of network configurations. Introduces to the Active Directory Services, backups, DDNS, DHCP, and setups in a Windows Domain. Additionally the course will help prepare you for the Microsoft Windows Server Examination.

Prerequisites, IT 111

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## GENERAL EDUCATION OUTCOMES OR OCCUPATIONAL PROGRAM OUTCOMES

This course introduces the following Associate of Applied Science in Computer Networking Competencies:

- #6 Implement and administer the domain name service
- #8 Implement and administer network security
- #9 Implement and administer Routing and remote access
- #12 Implement and administer automated services in a domain environment

This course strengthens the following Associate of Applied Science in Computer Networking Competencies:

- #5 Implement and administer server based network operating systems
  - #10 Implement and administer Internet services
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## COURSE OBJECTIVES & OUTCOMES:

Upon successful completion of this course with appropriate study, a student will be able to:

1. Prepare for the installation of Windows Server. Perform an attended installation and an unattended installation of Windows Server.
2. Identify the various types of Windows file systems and their components, and perform common disk

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management tasks.

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3. Configure NTFS security and configure security for shared folders. Create Dfs roots and links.
4. Configure a Windows Server as a domain controller. Install and configure Active Directory services, and administer Active Directory objects.
5. Create and administer various types of user accounts and group accounts. Administer group policies, and manage group policy objects.
6. Implement and administer network printing, manage documents, and administer printers from a Web browser.
7. Identify network protocols and services supported by Windows Servers. Configure TCP/IP, DHCP, WINS, and DNS.
8. Enable and configure Routing and Remote Access Service, and configure a RAS connection.
9. Identify the various components of Windows security, and analyze security on a computer running Windows Server. Configure Certificate Services and file encryption.
10. Manage hardware devices and their drivers. Configure UPS. Back up and restore data, implement disk disaster protection, and recover from a disaster.
11. Monitor and optimize the performance of your hard disk. Monitor system performance. Install the SNMP service.
12. Administer Internet Information Services. Configure Telnet services. Install and configure Terminal Services and Terminal Services licensing.

**METHODS OF INSTRUCTION:** This course will be completed as an instructor directed self-study using laboratory exercises coinciding with assigned readings and online supplemental study aids.

**METHODS OF EVALUATION:**

Tests, quizzes, assigned projects, lab work, and an oral examination.

**REQUIRED TEXTS:** *Managing and Maintaining a Microsoft Windows Server 2003 Environment (70-290)* textbook and *Managing and Maintaining a Microsoft Windows Server 2003 Environment (70-290)* Lab manual (Microsoft Press, 2004).

**DISABILITIES POLICY:** Reasonable accommodations may be provided for students with documented physical, sensory, cognitive, systemic, and/or psychiatric disabilities. Please contact Learning Support Services (LSS) at (231)348-6682 to arrange services for this course.

**SEQUENCE OF INSTRUCTION:**

The following is a tentative schedule based on individual student needs. The instructor reserves the right to make any schedule changes deemed necessary and assign online supplemental activities as necessary. The entire sequence must be completed by the end of the calendar semester.

Reading Assignments	Lab Exercises	Examinations
Readings should be done to facilitate completion of each lab exercise	Lab 1, Install Win2003 Server & MS Office on a 5 GB partition 2pts	

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	Lab 2, Install AV, MS Project, VISIO, map the lab including your server and plot your projected progress for the semester 2pts	
	Lab 3, Change your local security settings for account logon and begin auditing all logon events, 2pts.	
	Lab 4, Add your server to the networking.ncmc domain and establish remote desktop control of your server from the server room and then remotely control a server in the server room from your server 2pts	
	Lab 5, On the domain controller create a local group, a global group and a universal group using your name to name each (localdan, globaldan, universaldan). Add your account to each group, 2pts.	
	Lab 6, Make two shared folders, one with encryption and one with compression. Use your groups to control access to the folders. From both local and remote access move and copy files from one folder to the other. 2pts.	
	Lab 7, Add IIS 6 to your server. Modify the default web site to indicate your ownership. Access the web site from another computer. 2pts	Quiz 1 on Chapters 1-6
	Lab 8, Schedule and complete a backup. Delete your folders and restore them from the backup. 2pts	
	Lab 9, Install a printer as both shared and unshared. 2pts	
	Lab 10, Configure your server for automatic updates, 2pts	
	Lab 11, Establish and remove driver signing on your server. 2pts	
	Lab 12, Establish a second partition on your hard drive, then change it to a mounted volume from a new folder on your original hard drive. Set the permissions using your groups. 2pts	
	Lab 13, Begin logging object access on all of your folders. 2pts	
	Lab 14, Make an ASR disk. 2pts	
	Lab 15, From the command line execute a DCPROMO. Make a child domain in the networking.ncmc domain. 2pts	Oral Examination Final Examination

APPROVED FOR ADOPTION BY THE CRD/AP COMMITTEE ON 11/29/04