

COURSE TITLE AND NUMBER: Implementing Microsoft Windows 2000 Server, IT 120

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# North Central Michigan College

NCMC CURRICULUM/COURSE OUTLINE FOR YEARS 2002 +

DIVISION/AREA: Business and Technology      DEPARTMENT: Information Technologies

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AREA DEAN: Dr. Timothy Dykstra      ORIGINATOR: Fred R. Harrington Jr.

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

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COURSE NUMBER: IT 120      CREDIT HOURS: 1.5

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

PREREQUISITES: IT 110, A pretest may be taken in lieu of prerequisites with instructor approval.

CATALOG DESCRIPTION: IT 120, IMPLEMENTING MICROSOFT WINDOWS 2000 SERVER

This course will introduce you to Microsoft Windows 2000 Server through exploration, demonstrations, discussions, and hands-on lab exercises. You will perform installations and learn how to administer and troubleshoot problems with the operating system in a variety of network configurations. You will be introduced to the Active Directory Services, DDNS, DHCP, and WINS setups in the Windows 2000 Domain. Additionally the course will help prepare you for the Microsoft Windows 2000 Server Examination, 70-215. Prerequisites, IT 110 or instructor approval.

GENERAL EDUCATION OUTCOMES OR OCCUPATIONAL PROGRAM OUTCOMES

The purpose of General Education requirements in our degree programs is to enable students to develop their ability to reason, to communicate effectively in both oral and written form, and to acquire sufficient knowledge of their heritage to participate fully in society and the world. Upon completion of an associate degree program, a graduate will be able to:

1. Think critically and analytically: The course requires a student to be able to identify a given network configuration, choose, install, troubleshoot, and administer the appropriate protocols to implement the operating system as both stand alone and as a domain controller.
1. Write and speak effectively: The course requires a student to document completion of each laboratory assignment with a clearly written professionally formatted letter. Prior to taking the final examination each student must pass an oral examination in which students must clearly articulate their understanding of an instructor selected topic.
1. Independently acquire knowledge: The course is an instructor guided self-study program. Instructor guidance is used to help students develop concepts through pre-designed exercises and exploration in a controlled environment. Online supplements are provided for both remedial support and in-depth investigations.

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1. Select and use mathematical tools for problem solving and decision-making: The course requires a student use a binary to decimal conversions to develop mathematical representations used to configure network interface cards and to develop a subnet masking scheme appropriate to the laboratory's network configuration. The same calculation will be used to develop DHCP scopes and routing tables.

**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 2000 Server. Perform an attended installation and an unattended installation of Windows 2000 Server.
2. Identify the various types of Windows 2000 file systems and their components, and perform common disk management tasks.
3. Configure NTFS security and configure security for shared folders. Create Dfs roots and links.
4. Configure a Windows 2000 Server computer 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 2000 Server. 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 2000 security, and analyze security on a computer running Windows 2000 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 (1) = 30%

Quizzes = 30%

Assignments and lab work = 30%

Oral examination = 10%

Grading Scale: A (95), A- (90), B+ (87), B (83), B-(80), C+(77), C (73), C-(70), E-(less than 70)

1. The test will be scheduled with advance notice upon completion of all labs, quizzes, and an oral examination. The test will consist of questions derived from labs, and assigned readings.
2. Quizzes will be given at completion of each chapter lab assignment. Quizzes will consist of questions derived from labs, and assigned readings.
3. Lab exercises will be completed in conjunction with assigned readings. Before leaving the lab, the instructor must view your lab assignments. To ensure you receive credit for the lab you must turn in a lab report written as a letter in the professional format provided by the instructor.

4. An oral examination will be conducted upon completion of all assignments. During the examination the student must demonstrate satisfactory knowledge in an area to be determined by the instructor. Quizzes, tests, and the oral examination must be passed with a score of 70 or greater. Examinations may be retaken after a waiting period of at least one day. In all reexaminations the highest achievable score will be 70.

**REQUIRED TEXTS:**

***ALS: Microsoft Windows 2000 Server textbook and ALS: Microsoft Windows 2000 Server Lab Manual (Microsoft Press, 2000).***

**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. Laboratory access is limited to 12 hours per week for this course.

<b>Assignment</b>	<b>Reading Assignments</b>	<b>Lab Exercises</b>	<b>Examinations</b>
Assignment 1	Introduction to course Chapter 1, Lessons 1–3	Lab 1	
Assignment 2	Chapter 2, Lessons 1–4	Lab 2	
Assignment 3	Chapter 3, Lessons 1–3	Lab 3	
Assignment 4	Chapter 4, Lessons 1–4	Lab 4	
Assignment 5	Chapter 5, Lesson 1–2	Lab 5	Quiz 1 on Chapters 1–5
Assignment 6	Chapter 6, Lessons 1–4	Lab 6	
Assignment 7	Chapter 7, Lessons 1–3	Lab 7	
Assignment 8	Chapter 7, Lesson 4	Lab 8	
Assignment 9	Chapter 8, Lesson 1–5 Chapter 9, Lesson 1	Lab 9	
Assignment 10	Chapter 9, Lessons 2–5	Lab 10	
Assignment 11	Chapter 10, Lessons 1–5	Lab 11	Quiz 1 on Chapters 6-10
Assignment 12	Chapter 11, Lessons 1–5	Lab 12	
Assignment 13	Chapter 12, Lesson 1–4	Lab 13	
Assignment 14	Chapter 13, Lessons 1–5	Lab 14	
Assignment 15	Chapter 14, Lessons 1–3		
Assignment 16	Chapter 14, Lesson 4		Quiz 1 on Chapters 1–5 Oral Examination Final Examination

Reasonable accommodations may be provided for students with documented physical, sensory, cognitive, systemic, and/or psychiatric disabilities. Please contact the Education Opportunity Program (EOP) at (231) 348-6687 to arrange services for this course.

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APPROVED FOR ADOPTION BY THE CRD/AP COMMITTEE ON \_\_\_\_\_