

OAKTON COMMUNITY COLLEGE GENERIC COURSE SYLLABUS

I.	<u>COURSE PREFIX</u>	<u>COURSE NUMBER</u>	<u>COURSE NAME</u>	<u>CREDIT</u>	<u>LECTURE</u>	<u>LAB</u>
	CNS (Formerly LAN 201)	201	Microsoft Designing a Windows Active Directory and Network Infrastructure	3	3	1

II. PREREQUISITE:

CNS 120 (Formerly LAN 120) or LAN 173 or consent of instructor, coordinator or program chair.

III. COURSE (CATALOG) DESCRIPTION:

This course provides students with the knowledge and skills to Design an Active Directory network infrastructure and directory service for a Microsoft Windows Server environment. The course covers the most recent release of Windows. This course is one of the elective examinations that are required in Microsoft Certified Systems Engineer (MCSE), Windows 2003 curriculum.

IV. LEARNING OBJECTIVES:

Upon completing this course, students will be able to:

1. Describe the process of designing an Active Directory infrastructure and a network infrastructure that supports Active Directory.
2. Design a forest and domain infrastructure that meets the needs of an organization.
3. Design a site infrastructure that meets the needs of an organization.
4. Design a Group Policy structure that meets the needs of an organization.
5. Design an administrative structure that meets the needs of an organization.
6. Design a physical network structure that supports Active Directory and meets the needs of an organization.
7. Create a design for network connectivity that supports Active Directory and meets the needs of an organization.
8. Design a name resolution strategy that supports Active Directory and meets the needs of an organization.
9. Design a Dynamic Host Configuration Protocol (DHCP) structure that supports Active Directory and meets the needs of an organization.
10. Design a network access infrastructure that supports Active Directory and meets the needs of an organization.

V. ACADEMIC INTEGRITY:

Students and employees at Oakton Community College are required to demonstrate academic integrity and follow Oakton's Code of Academic Conduct. This code prohibits:

- cheating
- plagiarism (turning in work not written by you, or lacking proper citation)
- falsification and fabrication (lying or distorting the truth)
- helping others to cheat
- unauthorized changes on official documents
- pretending to be someone else or having someone else pretend to be you

- making or accepting bribes, special favors, or threats, and
- any other behavior that violates academic integrity.

There are serious consequences to violations of the academic integrity policy. Oakton's policies and procedures provide students a fair hearing if a complaint is made against you. If you are found to have violated the policy, the minimum penalty is failure on the assignment and, a disciplinary record will be established and kept on file in the office of the Vice President for Student Affairs for a period of 3 years.

Details of the Code of Academic Conduct can be found in the Student Handbook.

VI. OUTLINE OF TOPICS:

- A. Introduction to Designing an Active Directory and Network Infrastructure
- B. Designing a Forest and Domain Infrastructure
- C. Designing a Site Infrastructure
- D. Designing for Group Policy
- E. Designing the Administrative Structure
- F. Designing the Physical Network
- G. Designing for Network Connectivity
- H. Designing a Name Resolution Strategy
- I. Designing the Network Access Infrastructure

VII. METHODS OF INSTRUCTION:

Methods include lectures, class exercises, class discussion, hands-on lab exercises

VIII. COURSE PRACTICES REQUIRED:

- Read course materials – textbook and current journals.
- Attend and participate in class lecture and lab.
- Complete required assignments, exercises, quizzes, and exams.
- Complete LAN projects.

IX. INSTRUCTIONAL MATERIALS:

- Textbook and Lab book: Microsoft Official Curriculum for Windows
- Current Self-Test Software
- Software manuals

X. METHODS OF EVALUATING STUDENT PROGRESS:

Quizzes, examinations; completion of lab assignments; exercises and several Local Area Networks (LAN) projects.

XI. OTHER COURSE INFORMATION:

If you have a documented learning, psychological, or physical disability you may be entitled to reasonable academic accommodations or services. To request accommodations or services, contact the ASSIST office in the Learning Center. All students are expected to fulfill essential course requirements. The College will not waive any essential skill or requirement of a course or degree program.