

**OAKTON COMMUNITY COLLEGE
GENERIC COURSE SYLLABUS**

I.	<u>COURSE</u>	<u>COURSE</u>				
	<u>PREFIX</u>	<u>NUMBER</u>	<u>COURSE NAME</u>	<u>CREDIT</u>	<u>LECTURE</u>	<u>LAB</u>
	CNS	210	Microsoft Deploying and Managing Internet Security and Acceleration Server (ISA)	3	3	1
	(Formerly LAN 210)					

II. PREREQUISITE:

CNS 117 (Formerly LAN 117) or LAN 172, or consent of instructor, coordinator or program chair.

III. COURSE (CATALOG) DESCRIPTION:

This course provides students with the knowledge and skills to deploy and manage Microsoft Internet Security and Acceleration (ISA) Server in an enterprise environment. In addition this course is useful for students intending to become Web administrators, network administrators, and security administrators. This course also provides information necessary to pass the Microsoft Certification examination.

IV. LEARNING OBJECTIVES:

The student will be able to install, configure and troubleshoot Microsoft Internet Security and Acceleration (ISA) Server in an information technology (IT) enterprise environment. In addition he/she will be able to configure the ISA server as a cache server and as a firewall; or as virtual private network (VPN) server. Students will learn how to configure access policies to enable secure Internet access for client computers.

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:

1. Introducing and Maintaining an ISA Server
2. Using Caching and Using Firewalls
3. Installing and Configuring ISA Server Clients
4. Accessing Policies and Rules Overview
5. Creating Policy Elements
6. Configuring Access Policies and Rules
7. Configuring Bandwidth Rules
8. Using ISA Server Authentication
9. Configuring Cache Policy and Cache Settings
10. Configuring Scheduled Content Downloads
11. Configuring VPNs and Securing the Server
12. Examining Perimeter Networks
13. Examining and Configuring Packet Filtering and IP Routing
14. Securing the ISA Server computer.
15. Explaining the use of perimeter networks.
16. Configuring packet filtering, IP routing and application filters.
17. Configuring Web Publishing and Configuring Server Publishing
18. Adding an H.323 Gatekeeper
19. Planning a Monitoring and Reporting Strategy
20. Monitoring Intrusion Detection and ISA Server Activity
21. Analyzing ISA Server Activity by Using Reports and Monitoring Real-Time Activity
22. Testing the ISA Server Configuration
23. Introducing and Installing ISA Server Enterprise Edition
24. Using Enterprise Policies and Array Policies
25. Managing Network Connections
26. Scaling ISA Server, Extending and Automating ISA Server Functionality

VII. METHODS OF INSTRUCTION:

The course will include lecture and lab. The lab experiments will reinforce ideas learned in the lecture.

VIII. COURSE PRACTICES REQUIRED:

- Read course materials.
- Attend and participate in class lecture and lab.
- Complete required assignments, exercises, quizzes, and exams.

IX. INSTRUCTIONAL MATERIALS:

Microsoft Corporation - Microsoft Official Curriculum (MOC)

Appropriate Self-Test

X. METHODS OF EVALUATING STUDENT PROGRESS:

Quizzes, examinations, completion of lab assignments and exercises.

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.