

**LAGUARDIA COMMUNITY COLLEGE
CITY UNIVERSITY OF NEW YORK
DEPARTMENT OF MATHEMATICS, ENGINEERING, and COMPUTER SCIENCE**

**MAC233 Windows NT Network Operating System
3 credits; 4 hours (3 lecture, 1 lab)**

This course will provide the student with a comprehensive knowledge of the Microsoft Windows Server 2008 Operating system and networking environment. Topics to be covered include an overview of the system architecture, the network environment, administration, security, and optimization. Students will be in a computer lab to learn the skills needed to install and configure Server 2008 systems and workstations and servers. This course will prepare students to take the first Microsoft Certification Exam in Systems Engineering (MCSE).

Prerequisite: MAC230

Instructional Objectives:

1. To familiarize the student with the various components of Windows Server 2008 from a user's perspective.
2. To familiarize the student with the various Windows Server 2008 components from a systems perspective.
3. To introduce the students to the steps needed to install Windows Server 2008 on a stand-alone computer.
4. To introduce the students to the steps needed to install Windows Server 2008 on a computer connected to a network.
5. To provide the student with a comprehensive overview of system security.
6. To introduce the student to the administration of a Windows Server 2008 networking environment.
7. To familiarize the student with the methods of remote access to Windows Server 2008.
8. To familiarize the student with Windows Server 2008's printing services.
9. To familiarize the student with the methods used for performance optimization.
10. To Provide the student with a mixture of group and individual lab work with Windows Server 2008.

Performance Objectives:

1. Describe common characteristics of the Windows Server 2008 Network Operating System.
2. Describe the Windows Server 2008 system from a systems prospective.
3. Illustrate the installation of Windows Server 2008 on a PC.
4. Illustrate the installation of Windows Server 2008 on a PC connected to a network.
5. Explain system security.
6. Illustrate administration of a Windows Server 2008 networking environment.
7. Illustrate remote access of Windows Server 2008.
8. Prepare a Windows Server 2008 printing service.
9. Analyze a system for performance optimization.
10. Work alone and in a group setting with Windows Server 2008.
11. Demonstrate knowledge of the course material through written exams and laboratory projects.

Grading Standards:

Midterm	30%
Individual Lab Projects	20%
Group Lab Projects	20%
Final	30%
Total	100%

Book:

MCITP Guide to Microsoft Windows Server 2008, Server Administration(Exam # 70-646), 1th Edition, by Michael Palmer; Publisher: Course Technology CENGAGE Learning, Copyright: 2011, Format: Paper; 711 pp

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Course Syllabus:

Week 1

Introduction to Windows Server 2008

Installing Windows Server 2008

Week 2

Configuring the Windows Server 2008 Environment

Introduction to Active Directory and Account Management.

Week 3

More Introduction to Active Directory and Account Management

Configuring, Managing, and Troubleshooting Resource Access

Week 4

More Configuring, Managing, and Troubleshooting Resource Access

Configuring Windows Server 2008 Printing.

Week 5

Configuring and Managing Data Storage

Week 6

Managing Windows Server 2008 Networking Services

Week 7

More Managing Windows Server 2008 Networking Services

Deploying IIS and Active Directory Certificate Services

Week 8

Configuring Remote Access Services

Week 9

Windows Server 2008 Virtualization

Applications and Data Provisioning

Week 10

Securing Windows Server 2008

Week 11

Server and Network Monitoring

Managing System Reliability and Availability

Week 12

Certification Exam Preparation and Review

Week 13

Final Examination