



MONROE COUNTY
COMMUNITY COLLEGE

Course Outcome Summary

Required Program Core Course

CIA 230 Windows Server

Course Information

Division	Business
Contact Hours	45
Total Credits	3

Prerequisites

CIA 201 – Commercial Client Operating Systems

Course Description

This course offers in-depth coverage of core server services. Students will apply the knowledge gained to successfully install and securely configure, operate and maintain a Server Operating System to include: setting up user accounts, configuring appropriate authentication policies, configuring audit capabilities, performing back-ups, installing patches and updates, reviewing security logs, and restoring the system from a backup.

This course is a required core course for students pursuing an:

AAS in System Administration Specialist

AAS in PC Support Technician

AAS in Cybersecurity and Information Assurance

Course Outcomes

In order to evidence success in this course, the students will be able to:

1. Implement and administer a Windows Server
2. Implement and administer a Windows Server Domain Controller
3. Activate and administer server services
4. Manage Users, Groups and Organizational Units
5. Setup and manage Group Policy Objects
6. Implement File Services
7. Secure a Windows Server
8. Understand Virtualization



System Administration Specialist Program Outcomes Addressed by this Course:

Upon successful completion of this course, students should be able to meet the program outcomes listed below:

1. Implement and administer a Windows Server

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

Demonstrate a basic understanding of networks and computer security in the business environment.
Configure basic TCP/IP networking services on computers in the workplace.

2. Implement and administer a Windows Server Domain Controller;

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

3. Activate and administer server services;

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

4. Manage Users, Groups and Organizational Units;

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

Examine and apply the fundamental techniques of computer security. Identify and explain potential security issues.

5. Setup and manage Group Policy Objects;

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

6. Implement File Services;

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

7. Secure a Windows Server

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

Examine and apply the fundamental techniques of computer security. Identify and explain potential security issues.



Cybersecurity and Information Assurance Program Outcomes Addressed by this Course:

Upon successful completion of this course, students should be able to meet the program outcomes listed below:

1. Implement and administer a Windows Server

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

Demonstrate a basic understanding of networks and computer security in the business environment.
Configure basic TCP/IP networking services on computers in the workplace.

2. Implement and administer a Windows Server Domain Controller;

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

3. Activate and administer server services;

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

4. Manage Users, Groups and Organizational Units;

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

Examine and apply the fundamental techniques of computer security. Identify and explain potential security issues.

5. Setup and manage Group Policy Objects;

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

6. Implement File Services;

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

7. Secure a Windows Server

Applies to Program Outcome

Use, install, configure, manage, troubleshoot and maintain a server operating system.

Examine and apply the fundamental techniques of computer security. Identify and explain potential security issues.



Partner Mappings

1. Implement and administer a Windows Server;
 - a. NSA – OS Installation
 - b. NSA – Updates and Patches
 - c. EMU – Install a Windows Server
2. Implement and administer a Windows Server Domain Controller
 - a. NSA – Configuration Management;
 - b. EMU – Understand main components of AD DS
 - c. EMU – Promote servers to Domain Controllers
3. Activate and administer server services;
 - a. NSA – Managing System Services
 - b. EMU – Administer DNS
 - c. EMU – Administer DHCP
4. Manage Users, Groups and Organizational Units
 - a. NSA – User Accounts Management
 - b. EMU – Manage Users, Groups, Computers, and Organizational Units
5. Setup and manage Group Policy Objects
 - a. NSA – Password Policies
 - b. EMU - Configure and manage Group Policy in Active Directory
6. Implement File Services
 - a. NSA – File System Security
 - b. EMU - Configuring and deploying file services
7. Secure a Windows Server
 - a. NSA – Access Controls
 - b. NSA – Logging and Auditing
 - c. NSA – Security Policy Development
 - d. EMU - Securing Windows Server
8. Understand Virtualization
 - a. NSA – Virtualization