

## CUMBERLAND COUNTY COLLEGE

Course: CS 275 Core Server Operating System

Credits: 4

Prerequisites: CS 170 or CS 175

Description:

Prepares the student to install and configure Windows Server to create file, print, Web, and Terminal servers. Through hands-on lab instruction, students will learn about installation, access to resources, managing and troubleshooting hardware devices and drivers, network protocols, and security.

Learning Outcomes

At the completion of this course, students will be able to:

- Manage basic disks and dynamic disks;
- Monitor server hardware. Tools might include Device Manager, the Hardware Troubleshooting Wizard, and appropriate Control Panel items;
- Optimize server disk performance;
- Troubleshoot server hardware devices;
- Install and configure server hardware devices;
- Create and manage computer accounts in an Active Directory environment;
- Create and manage groups;
- Create and manage user accounts;
- Troubleshoot computer accounts;
- Troubleshoot user accounts;
- Troubleshoot user authentication issues;
- Configure access to shared folders;
- Configure file system permissions;
- Troubleshoot access to files and shared folders;
- Monitor and analyze events. Tools might include Event Viewer and System Monitor;
- Manage software update infrastructure;
- Manage software site licensing;
- Manage servers remotely;
- Troubleshoot print queues;
- Monitor system performance;
- Monitor file and print servers. Tools might include Task Manager, Event Viewer, and System Monitor;
- Monitor and optimize a server environment for application performance;

- Manage backup procedures;
- Restore backup data;
- Schedule backup jobs.

### Topical Outline

- Introduction to Windows Server Current Versions
- Installing Windows Server
- Local and Remote Server Management
- Configuring Server Storage
- File and Printer Services
- Introducing Active Directory
- Managing OUs and Active Directory Accounts
- Configuring Group Policies
- Configuring TCP/IP
- Configuring DNS
- Configuring Dynamic Host Configuration Protocol
- Configuring Virtualization with Hyper-V
- Managing and Implementing Backups and Disaster Recovery

### Text:

MCSE Guide to Installing and Configuring Microsoft Windows Server 2012/R2 (or most current textbook available)

### Student Assessment

(Assessment may be accomplished through projects, portfolios, exams, presentations and/or papers)

### Academic Integrity

Plagiarism is cheating. Plagiarism is presenting in written work, in public speaking, and in oral reports the ideas or exact words of someone else without proper documentation.

Whether the act of plagiarism is deliberate or accidental [ignorance of the proper rules for handling material is no excuse], plagiarism is, indeed, a “criminal” offense.

As such, a plagiarized paper or report automatically receives a grade of **ZERO** and the student may receive a grade of **F** for the semester at the discretion of the instructor.

### Tutoring & Project Assist

If you are having difficulty with work in this class tutoring is available through the Center for Academic & Student Success. If you think that you might have a learning disability, contact Project Assist at 856.691.8600 x 1282 for information on assistance that can be provided to eligible students.

### **Before Withdrawing From This Course**

If a student experiences adverse circumstances while enrolled in this course and considers withdrawing, s/he should see an advisor (division or advisement center) BEFORE withdrawing from the class. A withdrawal may cause harmful repercussions to completion rate standards and overall GPA which can limit or eliminate future financial aid in addition to causing academic suspension.