

CUMBERLAND COUNTY COLLEGE

Course: CS 226 Network Infrastructure Implementation

Credits: 4

Prerequisites: CS 275

Description:

Prepares the student for installing, configuring, managing and supporting a network infrastructure that uses the Microsoft Windows Server family of products.

Learning Outcomes

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

- Perform IP Addressing Basics;
- Configure a Network Interface;
- Implement Dynamic Host Configuration Protocol;
- Manage and Monitor DHCP;
- Configure Name Resolution;
- Implement and Manage the DNS Service;
- Implement and manage WINS;
- Secure Network Traffic;
- Configure Remote Access;
- Manage Internet Authentication Service;
- Demonstrate understanding of Routing;
- Use Security Templates;
- Troubleshoot Network Connectivity

Topical Outline

- Configuring Advanced Active Directory
- Advanced DHCP and DNS Configuration
- Configuring Advanced File and Storage Solutions
- Configuring DAC and IPAM
- Configuring Server High Availability
- Server and Site Disaster Recovery
- Implementing Active Directory Certificate Services
- Implementing AD FS and AD RMS

Text:

Greg Tomsho, MCSA Guide to Configuring Advanced Microsoft Windows Server

2012/R2 Services, Exam 70-412.

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.