

Course Outline

Fall 2005

Division: Information Technology

Program/Dept: Network Design and Administration

Course Number: NET 126 **Credits:** 5.0 **Variable:**

Course Title: Network OS 3 – Windows Network Infrastructure

Inst. Intent: 21 Vocational Preparatory **CIP:** 11.0901

Fee: Yes **Type:** Computer Lab Fee

Degree/Certificate Requirement: Yes

Name of Degree/ Network Administration – Certificate/Cisco Alternative/AAS-T

Certificate Requirements: Programs

Distribution Requirement for AA/AAS: Yes

Transfer Status to 4-year institution: No

If yes, please describe:

Course Length: Based on 11 wks/qtr. **Class Size:** 24

Course Contact Hours: 55 hours

Lecture: 55 **Lab:** **Clinical:** **Other:**

Prerequisite: Yes **If yes, please describe:** NET-124 or instructor permission

Required Placement Tests: No **If yes, please describe:**

Comments:

Course Description:

This course is for support professionals who are new to Microsoft® Windows® 2003 and will be responsible for installing, configuring, managing, and supporting a network infrastructure that uses the Microsoft Windows 2003 Server products. It also provides students with the prerequisite knowledge and skills required for ***Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure*** test 70-291.

Course Outcomes/Learning Objectives:

At the end of the course, students will be able to configure the DHCP Server service,
 Configure the DNS Server service,
 Configure WINS,
 Configure network security protocols,
 Configure network security by using Public Key Infrastructure (PKI),
 Configure network security by using Internet Protocol Security (IPSec),
 Configure remote access to a network,
 Support remote access to a network,
 Extend remote access capabilities by using Internet Authentication Service (IAS),
 Configure Windows 2003 as a network router,
 Configure Internet access for a network,
 Configure a Web server,
 Deploy Windows 2003 Professional by using Remote Installation Services (RIS),

Manage a Windows 2003 network,
Identify and resolve network connectivity problems by using Windows 2003 troubleshooting tools and utilities,
Enable network connectivity between NetWare, Macintosh, and UNIX networks.

SCCC General Education Outcomes and/or Related Instructional Outcomes (for technical courses) Met by Course: (list each outcome):

- Outcome 1: Think critically in reading and writing.
A. Develop the attitudes that support troubleshooting and reasoning processes.
B. To apply thinking skills.
- Outcome 6: Work and communicate effectively in groups.
A. To demonstrate effective listening skills.
C. To integrate with a group effectively.

Topical Outline and /or Major Divisions:

- Introduction to Microsoft Windows 2003 Networking Infrastructure
- Automating Internet Protocol (IP) Address Assignment
- Implementing Name Resolution Using DNS
- Implementing Name Resolution by Using WINS
- Configuring Network Security by Using Public Key Infrastructure
- Configuring Network Security by Using IPSec
- Supporting Remote Access to a Network
- Extending Remote Access Capabilities by Using IAS
- Configuring Internet Access for a Network
- Configuring a Web Server
- Managing a Windows 2003 Network
- Troubleshooting Windows 2003 Network Services

Course Requirements (Expectation of Students):

1. Attending class sessions
2. Reading as indicated by instructor
3. Completing course assignments and exams as indicated by instructor

Methods of Assessment/Evaluation:

Case/lab performance and written exams.

Required Text(s) and/or Materials:

As recommended by the instructor.

Supplemental Text(s) and/or Materials:

At the discretion of the instructor.

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Date: 10/10
Date: 10/00, 12/4/00, 2/1/01, 9/11/03,
10,24,03, 12/05
8/05