

## Course Outline

**Fall 2005**

**Division:** Information Technology

**Program/Dept:** Network Design and Administration

**Course Number:** NET 122    **Credits:** 5.0    **Variable:**

**Course Title:** Network OS 1

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

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

**Degree/Certificate Requirement:** Yes

**Name of Degree/** Network Administration – Certificate/AAS-T/Cisco Alt Cert programs

**Certificate Requirements:**

**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 hrs.

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

**Prerequisite:** Yes    **If yes, please describe:** Eligibility for MAT 119 and NET 120 w/ 2.0 or better or instructor permission.

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

**Comments:**

### **Course Description:**

This course provides students with the knowledge and skills necessary to install and configure Microsoft Windows XP Professional on stand-alone and client computers that are part of a workgroup or domain. It also provides students with the prerequisite knowledge and skills required for *Installing, Configuring and Administering Microsoft Windows XP Professional* MCSA test 70-270.

**Course Outcomes/Learning Objectives:**

At the end of the course, students will be able to install or upgrade to Windows XP professional;  
 Connect clients running Windows XP to networks;  
 Create and manage user accounts;  
 Manage access to resources by using groups;  
 Manage data by using the NTFS file system;  
 Provide network access to file resources;  
 Monitor and optimize performance in Windows XP;  
 Implement enhanced security in Windows XP;  
 Configure printing;  
 Configure Windows XP for mobile computing;  
 Configure and manage disks;  
 Implement manage and troubleshoot Network protocol and services.

**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 process.  
 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:**

- Installation of Windows XP Professional. Performance of an over-the-network or CD-ROM installation, creation and use of a master disk to install Windows XP Professional, and perform an unattended installation of Windows XP Professional.
- Identify the various types of Windows XP file systems and their components and perform common disk management tasks.
- Configure NTFS security and configure security for shared folders.
- Create and administer various types of local user accounts and local group accounts. Administer local group policies and manage local group policy objects.
- Implement and administer network printing, manage documents, and administer printers.
- Configure TCP/IP, DHCP, WINS, and DNS.
- Implement, manage, and troubleshoot disk devices, display devices, mobile computer hardware, input devices, and output devices.
- Manage and troubleshoot driver signing.
- Configure, manage, and troubleshoot Task Scheduler.
- Manage and troubleshoot the use and synchronization of off-line files.
- Plan and set up an Audit Policy, including account management auditing and privilege use auditing.
- Update drivers, install, configure, and troubleshoot network adapters.
- Configure implement Internet information services
- Configure Remote Access including using the Network And Dial-Up Connections to launch the Network Connection wizard and configure inbound dial-up connections and outbound connections.

**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:**

As recommended by the instructor.

**Outline Developed by:** Vince Offenback

**Date:** 10/00

**Revised by:** Bertin Koala, Robert Costello  
Lisa Sandoval

**Date:** 09/05, 12/05  
8/05