# Wayne County Community College District

## COURSE SYLLABUS

### CT 213        Computer Networking II

**CREDIT HOURS:** 4.00

**CONTACT HOURS:** 60.00

**COURSE DESCRIPTION:**
This course covers Managing and Maintaining a Microsoft Windows Server 2003 Environment.
Topics include: creating and managing users and groups; administrating server and web resources; managing hardware, access to files, disk and data storage, backup and disaster and basic security.

*PREREQUISITES:*  CT 211

**EXPECTED COMPETENCIES:**
Upon completion of this course, the student will be familiar with:
1. Describe the Windows 2000 product family
2. Describe the major features of the Windows 2000 environment
3. Understand the architecture of Windows 2000
4. Define the minimum system requirements for Windows 2000 Professional.
5. Understand the two major networking models under which Windows 2000 can be used.
6. Decide whether to perform an upgrade or a fresh installation of Windows Professional.
7. Boot multiple operating systems
8. Plan an installation or upgrade
9. Perform an unattended installation
10. Install Windows 2000 using disks, the CD-ROM, or the network.
11. Describe the various Setup and advanced installation options.
12. Describe the versatility of the Microsoft Management Console (MMC)
13. Create your own custom MMC consoles.
14. Use the Task Schedule to automate tasks
15. Understand and use the Control Panel applets
16. Install and Configure new hardware
17. Create hardware profiles for changing system configurations
18. Configure PC Cards and multiple displays.
19. Understand basic and dynamic storage
20. List the drive configurations supported by Windows 2000
21. Distinguish the FAT, FAT32, and NTFS file systems
22. Describe the permissions, sharing, and other security issues related to file systems
23. Understand drive, volume, and partition maintenance and administration under Windows
24. 2000.
25. Understand local users and groups
26. Discuss the Windows 2000 Professional Logon authentication.
27. Describe the default user accounts
28. Establish a naming convention for accounts and groups
29. Create and manage user accounts and profiles
30. Understand local security policies
31. Describe the Windows 2000 security model, and the key role of logon authentication
32. Customize the logon process
33. Discuss domain security concepts
34. Understand the local computer policy
35. Enable and use auditing

36. configure TCP/IP
37. Discuss connecting windows 2000 Professional computers to NetWare servers
38. Install and configure NWLink
39. Install and configure Client Service for NetWare (CSNW)
40. Understand remote access under Windows 2000
41. Configure various RAS connection types for a Windows 2000 Professional system.
42. Enable offline file access
43. Troubleshoot RAS problems
44. Understand Windows 2000 print terminology and architecture
45. Understand the special features of the Windows 2000 print system
46. Create and manage a printer
47. Manage printer permissions
48. Troubleshoot printing
49. Understand the performance and monitoring tools of Windows 2000.
50. Create a Counter log for historical analysis
51. Create Alert events to warn of performance problems
52. Create a baseline
53. Detect and eliminate bottlenecks.
54. Understand the run-time environments and application support in Windows 2000
55. Deploy DOS, Win16, OS/2, and POSIX applications
56. Fine-tune the application environment for DOS and Win16
57. Understand the function and structure of the Registry
58. Describe the purpose of each of the five Registry keys
59. Use the Registry editing tools
60. Understand the fault-tolerance mechanisms for the Registry
61. Back up and restore the Registry.
62. Understand the Windows 2000 boot process
63. Troubleshoot systems restoration by using Safe Mode
64. Explain the operation of the key Windows 2000 startup files
65. Understand the boot operations offered via the Advanced Options menu.
66. Edit the Boot, in file to manipulate the boot process.
67. Understand how multiboot configurations are created and how they function.
68. Define the Intel Mirror technology and describe its key features
69. Back up data and settings on Windows 2000 Professional
70. Recover and windows 2000 Professional client's applications and data
71. Create and use an Emergency Repair Disk
72. Install and use the Recovery Console
73. Describe remote operating system installation and how it can be used with IntelliMirror to
74. recover an entire PC remotely collect documentation about your systems to aid in
75. troubleshooting and preventing problems
76. Review common-sense approaches to troubleshooting
77. Troubleshoot general problems with Windows 2000
78. Use some of the troubleshooting tools of Windows 2000.

**ASSESSMENT METHODS:**
Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

**GRADING SCALE:**
90%-100% = A
80%-89.9%= B
70%-79.9%= C
60%-69.9%= D
<60% = E