PELLISSIPPI STATE COMMUNITY COLLEGE
MASTER SYLLABUS

WINDOWS SERVER
CSIT 2710

Class Hours: 3.0          Credit Hours: 4.0
Laboratory Hours: 3.0     Revised: Spring 2010

NOTE: This course is not designed for transfer credit.

Catalog Course Description:

This course is designed for computer personnel who must install, support, and manage a small Microsoft Windows network environment. The course emphasizes configuring the Microsoft Windows server operating system for a small network installation. Major topics included in the course are managing desktop environments and software with group policies, managing file resources and disks, supporting Microsoft Active Directory, TCP/IP, DHCP, DNS, and Internet Information Services, configuring remote access services (RAS), and implementing disaster protection, backup, and recovery techniques.

Entry Level Standards:

The entering student MUST be familiar with the Microsoft Windows XP operating system and/or Windows Vista and/or Server 2003/2008 operating systems and be able to demonstrate intermediate-level computer hardware knowledge. Problem solving and analytical skills are also important.

Prerequisites:

CSIT 2700 or consent of instructor

Textbook(s) and Other Course Materials:

Required Texts:

or
2. MCSA/MCSE Self-Paced Training Kit (Exams 70-290, 70-291, 70-293, 70-294): Microsoft® Windows Server™ 2003 Core Requirements, 2nd ed. by Don Holme, Orin Thomas, and others. ISBN: 0-7356-2290-6

Optional Text: (if class progresses and completes Server 2003 coursework)

References:
3. Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure (70-

5. USB Flash Drive or Hard Disk (1 GB minimum); 1-10' CAT5e Crossover cable; 1-10' CAT5e Straight-through cable

6. Floppy disk for creation of “Emergency Rescue Disk”

7. CD-R: Minimum of 10 will be used in this course

I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction, Topic Overview, Schedule Overview of Microsoft Windows 2003/2008 networking concepts</td>
</tr>
<tr>
<td>2</td>
<td>Managing Client and Server Computers; Managing Disks (Storage Resources)</td>
</tr>
<tr>
<td>2-3</td>
<td>Using NTFS Permissions to Secure Computer Resources</td>
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<td>3-4</td>
<td>Monitoring Server Health and Security</td>
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<td>5-6</td>
<td>Microsoft Active Directory Concepts; Installing Active Directory: Extra material</td>
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<tr>
<td>7</td>
<td>Managing Active Directory User and Computer Objects</td>
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<tr>
<td>7-8</td>
<td>Managing Active Directory Group Objects</td>
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<tr>
<td>8-9</td>
<td>Using Group Policies</td>
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<tr>
<td>10-11</td>
<td>Files and Folders; Managing Resources with Active Directory</td>
</tr>
<tr>
<td>11-12</td>
<td>Backing Up Data; Recovering from System Failure</td>
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<tr>
<td>12-13</td>
<td>Printers</td>
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<tr>
<td>13-14</td>
<td>Maintaining the Operating System; Managing Hardware Devices and Drivers</td>
</tr>
<tr>
<td>15</td>
<td>All Projects Due; Final Exam Period</td>
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II. Course Objectives*:

A. Demonstrate knowledge of designing/planning a Microsoft Windows 2003/2008 System. I, II, IV

B. Demonstrate knowledge of installing Microsoft Windows 2003/2008 (Professional and Server). II, IV

C. Demonstrate knowledge of managing/administering Microsoft Windows 2003/2008 III, IV

D. Demonstrate knowledge of DNS. I, II, III, IV

E. Demonstrate knowledge of installing and configuring the DNS Service. III, IV

F. Demonstrate knowledge of Microsoft Active Directory Services. II, IV, V, VIII
G. Demonstrate knowledge of planning, implementing, and administering Microsoft Active Directory. II,III,IV
H. Demonstrate knowledge of Group Policy. III,IV
I. Demonstrate knowledge of applying and configuring Group Policy. III,IV
J. Demonstrate knowledge of managing software by using Group Policy. III,IV
K. Demonstrate knowledge of managing file resources and disks. III,IV
L. Demonstrate knowledge of configuring Remote Access Services (RAS). III,IV
M. Demonstrate knowledge of supporting DHCP and WINS in Windows 2003/2008. III,IV
N. Demonstrate knowledge of implementing disaster protection in Windows 2003/2008 systems. III,IV
O. Demonstrate knowledge of Windows 2003/2008 TCP/IP. III,IV
P. Demonstrate knowledge of upgrading client operating systems. III,IV
Q. Demonstrate knowledge of performing Remote Installation Services (RIS). III,IV
R. Demonstrate knowledge of user and security management. III,IV
S. Demonstrate knowledge of solving common performance problems. I,III,IV
T. Demonstrate client service, teamwork skills and good communications skills to resolve problems and complete tasks. I,II,IX

*Roman numerals after course objectives reference goals of the CSIT program.

III. Instructional Processes*:

Students will:


2. Demonstrate knowledge of networking, electronic communication, and associated subjects. Technological Literacy, Active Learning


5. Handle and examine modern computing devices. Technological Literacy, Transitional Strategy, Active Learning

6. Prepare documents and presentations for management explaining computer networks and
communications hardware/software, etc. to meet user requirements. Communication, Technological Literacy, Transitional Strategy, Active Learning

7. Practice elements of the work ethic such as punctuality, professionalism, dependability, cooperation, and contribution. Transitional Strategies

*Strategies and outcomes listed after instructional processes reference TBR's goals for strengthening general education knowledge and skills, connecting course work to experiences beyond the classroom, and encouraging students to take active and responsible roles in the educational process.

IV. Expectations for Student Performance*

Upon successful completion of this course, the student should be able to:

6. Explain the features, operations, etc. of Microsoft DNS. D
7. Install, configure, and troubleshoot the DNS Service. E,T
8. Explain the features, operations, etc. of Active Directory Services. F
9. Install, configure, and troubleshoot the Active Directory Service. G,T
11. Apply and configure Group Policy for managing desktop environments. I,T
12. Use Group Policy to manage software deployment and upgrades. J
15. Understand the new authentication protocols in a Windows 2003/2008 system. L
16. Configure inbound and outbound connections with RAS. L,T
17. Create and examine remote Access Policies. L


*Letters after performance expectations reference the course objectives listed above.

V. Evaluation:

A. Testing Procedures:

Three (3) MAJOR examinations will be given. An alternative is to have examinations after each chapter/subject has been completed. There will be NO make-up tests unless prior arrangements are made with the instructor. If assigned, a COMPREHENSIVE final term project will be DUE NO LATER THAN the scheduled Final Exam period. This project WILL consist of a laboratory requiring a network system installation, configuration, and DETAILED documentation using ALL material learned during the semester.

B. Laboratory Expectations:

Laboratory exercises, examination question preparation, and project documentations are required. Case-study projects are integral parts of this course!

C. Field Work:

N/A

D. Other Evaluation Methods:

N/A

E. Grading Scale:

For all examinations and other assignments given, the final grade will be determined by the following scale:

- 93 – 100   A
- 88 – 92    B+
- 83 – 87    B
- 78 – 82    C+
- 73 – 77    C
- 65 – 72    D
- Below 65   F

VI. Policies:

A. Attendance Policy:

This course uses software and hardware not normally available out-of-class to students. Regular attendance is required for success in this class. Refer to the Class Policies document for more information.
Pellissippi State Technical Community College expects students to attend all scheduled instructional activities. As a minimum, students in all courses MUST BE PRESENT for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course. (*Pellissippi State Online Catalog*)

B. Academic Dishonesty:

Plagiarism, cheating, and other forms of academic dishonesty are prohibited. Students guilty of academic misconduct, either directly or indirectly through participation or assistance, are immediately responsible to the instructor of the class. In addition to other possible disciplinary sanctions which may be imposed through the regular Pellissippi State procedures as a result of academic misconduct, the instructor has the authority to assign an F or a zero for the exercise or examination or to assign an F in the course. (*Pellissippi State Online Catalog*)

C. Accommodations for disabilities:

Students who need accommodations because of a disability, have emergency medical information to share, or need special arrangements in case the building must be evacuated should inform the instructor immediately, privately after class or in her or his office. Students must present a current accommodation plan from a staff member in Services for Students with Disabilities (SSWD) in order to receive accommodations in this course. Services for Students with Disabilities may be contacted by going to Goins 134 or 126 or by phone: 694-6751 (Voice/TTY) or 539-7153. More information is available at [www.pstcc.edu/departments/swd/](http://www.pstcc.edu/departments/swd/).

D. Other Policies:

**Computer Usage Guidelines:**

College-owned or -operated computing resources are provided for use by students of Pellissippi State. All students are responsible for the usage of Pellissippi State’s computing resources in an effective, efficient, ethical and lawful manner. (*Pellissippi State Online Catalog*)