MICROSOFT NETWORKING II - SERVER
CST 2740

Class Hours: 3.0
Laboratory Hours: 3.0
Credit Hours: 4.0
Date Revised: Spring 00

NOTE: This course is not intended for transfer credit.

Catalog Course Description:
This course is a continuation of Microsoft Networking I - Workstation course and is designed for computer personnel who install, support, and manage Windows NT server systems and includes software installation and configuration, administration of system resources, printers, storage devices and backups. Troubleshooting of system problems is also included.

Entry Level Standards:
The student MUST be familiar with the Microsoft Windows NT workstation architecture and administration. The student must have math, writing, verbal and English language skills at the college entry level.

Prerequisites:
CST 2735 or department approval. A pre-test WILL be administered the first class session, and students NOT meeting the pre-requisites will not be allowed to continue in this class.

Corequisites:

Textbook(s) and Other Reference Materials Basic to the Course:
The following are bundled as a course kit as ISBN 0-619-094-753.
Hands-On Microsoft Windows NT Server 4.0 with Projects, by Michael Palmer, Course Technology.

Diskettes: One box of 20 high-density 3-1/2" diskettes.

I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Networking with Microsoft Windows NT Server</td>
</tr>
<tr>
<td>2</td>
<td>Basic Networking Design and Protocols</td>
</tr>
<tr>
<td>3</td>
<td>Server Hardware</td>
</tr>
</tbody>
</table>
II. Course Objectives*:

A. Develop a working understanding of the terminology, hardware devices, and system software associated with computer networks. III, II, V, IX, X

B. Exhibit a knowledge of basic and advanced features of Microsoft Windows NT concepts. II, III, IX

C. Exhibit a knowledge of the Windows NT server operating system. II, III, IX

D. Exhibit a knowledge of diagnosing and troubleshooting Windows NT server. II, III, V

E. Exhibit a knowledge of installing, configuring, and upgrading Windows NT server components and software. II, IX

F. Exhibit proficiency in written and oral communications about computers. I, IX

*Roman numerals after course objectives reference goals of the Business and Computer Technologies department.

III. Instructional Processes*:

Students will:

1. Use Windows 95/98/NT and DOS operating systems commands and utilities to perform practical tasks for personal computing. Problem Solving and Decision Making Outcome, Technological Literacy Outcome, Information Literacy Outcome, Active Learning Strategy

2. Solve problems by diagnosing and troubleshooting Windows NT problems. Problem Solving and Decision Making Outcome, Technological Literacy Outcome, Information Literacy Outcome, Transitional Strategy
3. Solve problems encountered in the installation, configuration, and upgrading of Windows NT components and system software. *Problem Solving and Decision Making Outcome, Technological Literacy Outcome, Information Literacy Outcome, Transitional Strategy*


5. Handle and examine modern computing devices. *Technological Literacy Outcome, Transitional Strategy*

6. Prepare documents for management explaining network system problems and the need for new systems, upgrades, networks, etc. *Communication Outcome, Problem Solving and Decision Making Outcome, Technological Literacy Outcome, Information Literacy Outcome, Transitional Strategy, Active Learning Strategy*

7. Practice elements of the work ethic such as punctuality, professionalism, dependability, cooperation, and contribution. *Personal Development Outcome*

*Strategies and outcomes listed after instructional processes reference Pellissippi State’s goals for strengthening general education knowledge and skills, connecting coursework 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:

1. Identify the Windows operating systems.  A, B, C
2. Describe the features of Windows NT Server 4.0.  A, B, F
3. Explain the similarities and differences between workgroups and domains.  A, F
4. Use the tools and techniques for performing a server-based installation.  B, D
5. Plan for installation of Windows NT Server.  A, C
6. Install Windows NT Server.  C, D, E
7. Troubleshoot the installation process.  D, E
8. Create user accounts.  B, C
9. Create local groups.  B, C
10. Manage Windows NT printing.  B, E, F
11. Use System Policy Editor to secure a computer.  B, E
12. Use Disk Administrator to manage disk partitions.  B, E
13. Describe fault tolerance in Windows NT.  B, C
14. Recover from hard-disk failure.  C, D
15. Describe NetWare integration and migration.  B, F
16. Install File and Print Services for NetWare.  E, F
17. Configure FPNW. B, E
18. Create NetWare-compatible accounts. B, C
19. Describe the Migration Tool for NetWare. B, E, F

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

V. Evaluation:

A. Testing Procedures:

There will be three tests which count 200 points each (or 600 points total). There will be no make-up tests unless prior arrangements are made with the instructor.

B. Laboratory Expectations:

Lab attendance is required. Assignments worth 300 points must be completed and submitted by the assigned deadline. This is a coordinated laboratory class, and assignments must be completed as scheduled.

C. Field Work:

None

D. Other Evaluation Methods:

Pop-Quizzes and "Outside-Class" take-home assignments will be given, which will total 100 points.

E. Grading Scale:

<table>
<thead>
<tr>
<th>Points Range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>900 - 1000 pts.</td>
<td>A</td>
</tr>
<tr>
<td>800 - 899 pts.</td>
<td>B</td>
</tr>
<tr>
<td>700 - 799 pts.</td>
<td>C</td>
</tr>
<tr>
<td>625 - 699 pts.</td>
<td>D</td>
</tr>
<tr>
<td>0 - 624 pts.</td>
<td>F</td>
</tr>
</tbody>
</table>

VI. Policies:

A. Attendance Policy:

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.

B. Academic Dishonesty:

Plagiarism, cheating, software piracy, non-educational use of computer systems and other forms of academic dishonesty are strictly prohibited.

C. Other Policies:

Students are expected to promptly attend all lecture and lab classes as assigned. Regular Lab/Tutorial attendance is necessary for successful completion of the course. Excessive absence or a casual attitude towards the course work invariably has a
negative effect upon the grade of the student.