Semester/Year: Fall 2006

Lecture Hours: 2  Lab Hours: 2  Credit Hours: 2

Class Time: Lecture: 9-9:50 AM  Days: Lecture: TH  Room: EI 125
Lab: 10-11:50 AM  Lab: TH  EI 125

Instructor's name: Dr. Dave Arndt

Instructor’s Contact Information: Office Phone: 268-2521
Office: EI 121
Email: darndt@caspercollege.edu.
Office Hours: M-F: 8-8:50 AM

Course description:
An introduction of the technical aspects of local area networks. The course will include software installation and maintenance, hardware installation, cable connections, and system troubleshooting.

Statement of prerequisites: ELTR-2915 or permission of instructor.

Goal:
Upon completion of this course, the student will:
1. Install and setup the software for computer networks.
2. Install and connect the hardware for computer networks.
3. Troubleshoot a computer network to find faults in it

Outcomes:
The student will:
1. Construct and test coaxial and twisted pair cables.
2. Set up a twisted pair 10 Base T network.
3. Test and troubleshoot a LAN using a LAN cable tester and LAN analyzer.
4. Create new users for a network
5. Set up login and file system security for a network
6. Program and set-up a printer and security on a local area network.
7. Install and configure the software for a network file server.
Methodology:
This course will consist of a one-hour lecture and a 2-hour lab per week for 16 weeks. This allows for formal lectures and individualized help in the laboratory. The students will have ample time to complete experiments on local area network hardware and software.

Evaluation criteria:
The final grade will be composed of 50% for individual tests and 50% for laboratory experiments. Attendance and participation are mandatory.

Grading System:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>Test Average</td>
<td>50%</td>
<td>100</td>
</tr>
<tr>
<td>Lab experiments</td>
<td>50%</td>
<td>100</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
<td>200</td>
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Required Text, Readings, and Materials:
MCSE Guide to Microsoft Windows 2000 Server

Class Policies: Last date to change to Audit Status or to Withdraws with a W Grade:
Please refer to the current Casper College catalog.

Student rights and responsibilities: Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

Academic dishonesty- Cheating and Plagiarism: Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offence was committed or expulsion from school. See the Casper College Student Code of Conduct.

Chain of Command: If you have any problems with this class, you should first contact the instructor in order to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take your problem through the appropriate chain of command starting with the department head, then the division chair, and lastly the vice president for academic affairs.

ADA Accommodations Policy: It is the policy of Casper College to provide appropriate accommodations to any student with a documented disability. If you have a need for accommodation in this course, please make an appointment to see me at your earliest convenience.

SAFETY: Personal and equipment safety standards will be strictly enforced. It is the individual’s responsibility to develop a safe work attitude.
Calendar or schedule indicating course content:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1/2</td>
<td>Network Topologies and Chapter 1, Networking with Microsoft Windows 2000 Server Lab 1</td>
</tr>
<tr>
<td>3/4</td>
<td>Chapter 2, Planning the Server Hardware Lab 2. <strong>TEST 1</strong></td>
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<tr>
<td>5/6</td>
<td>Chapter 3, Planning Network Protocols and Compatibilities Lab 3</td>
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<tr>
<td>7/8</td>
<td>Chapter 5 Server Installation Lab 4. <strong>TEST 2</strong></td>
</tr>
<tr>
<td>9/10</td>
<td>Chapter 6, Server Configuration Lab 5 Chapter 8, Managing Accounts and Client Connectivity</td>
</tr>
<tr>
<td>11/12</td>
<td>Chapter 9, Managing Groups, Folders, Files and Object Security Lab 6 Lab 7. <strong>TEST 3</strong></td>
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<tr>
<td>13/14</td>
<td>Chapter 11, Installing and Managing Printers Lab 8</td>
</tr>
<tr>
<td>15/16</td>
<td>Lab 9, Troubleshooting Network Cables <strong>TEST 4</strong></td>
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