

CASPER COLLEGE COURSE SYLLABUS

**ELTR-2910
Computer Networking**

Semester/Year: Fall 2015		
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Lecture Hours: 1	Lab Hours: 2	Credit Hours: 2
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Class Time: Lecture: 10-10:50 AM; Lab: 2-3:50 PM	Days: M	Room: GW 208
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Instructor's Name: David Arndt		
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Instructor's Contact Information: Office: GW 116E	Office Phone: 307- 268-2521	Email: darndt@caspercollege.edu
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Office Hours: M, W 8-8:50 AM M, W, F 9-9:50 AM		
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Course Description:		
<p>This is an introduction to the technical and software aspects of local area networks. The course will include software installation and maintenance, hardware installation, cable connections, and system troubleshooting.</p>		
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Statement of Prerequisites:		
<p>None</p>		
Goal: Demonstrate understanding of how a computer network is setup and controlled.		
Outcomes:		
<p>Upon completion of this course, the student will:</p> <ol style="list-style-type: none">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 the network.		
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Objectives:

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.
8. Design a resume and a cover letter for an employment interview.

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:

Test Average	50%	=	100 pts
Lab experiments	50%	=	100 pts
Total	100%	=	200 pts

Casper College may collect samples of student work demonstrating achievement of the above outcomes. Any personally identifying information will be removed from student work.

Required Text, Readings, and Materials:

Guide to Network Essentials

Class Policies: Last Date to Change to Audit Status or to Withdraw 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.

Chain of Command: If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Dean, and lastly the Vice President for Academic Affairs.

Academic Dishonesty: (Cheating & 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 offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

Official Means of Communication: Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly. This is also, where you will find course evaluation links during course evaluation periods.

ADA Accommodations Policy: If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college's Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.

Calendar or schedule indicating course content:

Tentative schedule:

COURSE OUTLINE

<i>Week</i>	<i>Topic</i>
1	Chapter 1, Intro to Computer Networks
2	Labor Day- off
3	Test 1 (Chapter 1) Chapter 2, Network Hardware

	Lab 1, Coaxial Cables
4	Chapter 2, Hardware Lab 2, Twisted Pair Cables
5	Test 2 (Chapter 2) Chapter 3, Network Topologies Set up Network
6	Test 3, (Chapter 3) Chapter 4, Media Lab 3, Installing Windows XP
7	Chapter 8, Network Operating System
8	Chapter 8 continued Lab 4, Installing Server Software
9	Test 4 (Chapter 8) Chapter 5, TCP/IP Protocol
10	Chapter 5, TCP/IP Protocol Lab 5, Managing Users and Groups
11	Test 5, (Chapter 5) Chapter 9, Server Management Lab 6, File Access
12	Chapter 9, Server Management Lab 6, File Access
13	Test 6 (Chapter 9) Lab 7, Troubleshooting
14	Print Services Lab 8, Network Printing
15	Resume and Cover Letters

Final Exams as Scheduled