

Cosumnes River College
CIS 79B
NETWORKING THEORY & ROUTING TECHNOLOGIES
Intel Routers and Switches
Spring 2003

Instructor: Buddy Spisak

Office Hours: Saturday after class

Office: The BS153 classroom

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Course Web page: <http://blackboard.losrios.edu/online.htm>

Instructor Web page: <http://crc.losrios.edu/~spisakj/>

Prerequisites: CIS 79A or CIS 63

Lecture/Lab: Saturday 11:00 AM to 2:50 PM

Accepted for Credit: CSU

Class Credits: 3 units

Required Textbooks:

Author: Kurt Hudson

Title: CCNA Guide to Cisco Networking, Second Edition

Publishing Info: Course Technology Incorporated, 2003

ISBN: 0-619-03477-7

Author: Kelly Cannon

Title: Lab Manual for CCNA Guide to Cisco Networking, Second Edition

Publishing Info: Course Technology Incorporated, 2003

ISBN: 0-619-03478-5

Course Description:

This course is an introduction to networking theory and routing technologies, including the OSI Model, beginning router configurations, routed and routing protocols.

Course Objectives:

- Demonstrate knowledge of the underlying technologies utilized in modern networking.
- Utilize various protocols across an Internet composed of different topologies.
- Share devices and information on a network.

Student Obligation:

- **Attendance:** If you need to miss a class, you are responsible for the material covered. I will take attendance several times during class. Please realize that I cannot possibly review the entire content of a three-hour lecture with you in ten minutes. You should find a "buddy" who is willing to share notes with you if you have to miss lecture. ***If you miss two classes you may be dropped from the class at my discretion.***
- **Late Work:** Late work will be accepted ONLY if you have contacted me prior to class either by email or voice mail. In general, late work is due the next class meeting from the original due date. Unexcused, late assignments will have 20% taken off. All lab assignments are due by midnight of the due date.

- **Homework:** Students are expected to do their own work. This rule does not mean that you cannot discuss assignments and problems with fellow students. In fact, working together is encouraged. However, once you have worked together, do your own work. Copying all or parts of homework assignments is expressly forbidden. Violation of this rule will result in a zero for ALL parties involved.
- **Exams:** There will be two quizzes for each class lecture, one midterm exam, and one final exam. The dates for the tests are located in the **SCHEDULE** portion of this handout. You **CANNOT** make-up the quizzes or the Final Exam.
- **Plagiarism Policy:** It is inappropriate, and a violation of academic policy, to copy information from any source (including, but not limited to, textbooks, magazine articles, newspaper articles and Internet articles) without giving proper credit to the author by using standard quotation procedures such as in-line quotes, footnotes, endnotes, etc. Quotes may not exceed 25% of the assignment's total length. You will receive no credit (0 points) for any assignment that copies any material from any other source without giving proper credit to the author(s). Repeat offenders of this policy are subject to academic discipline as outlined in the policies published by the college.
- **Cheating:** Students who cheat will receive a failing grade for the course (see CRC Regulation # 2441).
- **Email:** Every student will be required to have an email account.
- **Email etiquette:** I will not tolerate rude and demeaning comments or e-mails to anyone in this class. Please keep your comments and e-mails topic-related. If I determine that a comment or e-mail to anyone else in the class is rude or demeaning, I will warn you once. If your behavior continues to be unacceptable, I will refer you to the administration of the college for disciplinary action.
- **Magazine Article Summaries:** You are required to research three magazine articles about *current* topics related to routers and switches. The articles should come from the Internet, but *no source can be older than three months*.
- **Blackboard:** This class utilizes a product called "Blackboard." It is highly recommended that you check the website frequently for scheduling updates and homework assignments. Most of the homework assignments and quizzes will be done on Blackboard. *I hope your experience with the product is an enjoyable one, and I hope that you feel it aids your educational experience.*

Evaluation:

	% the of Grade
Magazine article reviews	10
Quizzes	15
Homework	20
Lab Assignments	25
Exams (Midterm & Final)	30

Schedule: (can change over the course of the semester)

	Day:		Lecture Schedule:	Review:	* Due Date:
Week 1	Saturday	(1/25)	Class Introduction Introducing Networks	Chapter 1	Lab #1
Week 2	Saturday	(2/1)	Network Devices TCP/IP	Chapters 2 & 3	Lab #2
Week 3	Saturday	(2/8)	TCP/IP	Chapters 3	Lab #3
Week 4	Saturday	(2/15)	<i>Holiday – No class</i>		
Week 5	Saturday	(2/22)	Network Topology and Design	Chapter 4	Article #1
Week 6	Saturday	(3/1)	Network Topology and Design	Chapter 4	Lab #4
Week 7	Saturday	(3/8)	WAN Concepts Router Basics	Chapters 5 & 6	Lab #5
Week 8	Saturday	(3/15)	Router Startup and Configuration	Chapter 7	Lab #6
Week 9	Saturday	(3/22)	Review Midterm (chapters 1 to 7)		Lab #7
Week 10	Saturday	(3/29)	Non-routable, Routable, and Routing Protocols	Chapter 8	Lab #8 Article #2
Week 11	Saturday	(4/5)	IPX/SPX	Chapter 9	Lab #9
Week 12	Saturday	(4/12)	Access List	Chapter 10	Lab #10
Week 13	Saturday	(4/19)	<i>Spring Recess – No class</i>		
Week 14	Saturday	(4/26)	PPP/ISDN	Chapter 11	Lab #11
Week 15	Saturday	(5/3)	Frame Relay	Chapter 12	Lab #12 Article #3
Week 16	Saturday	(5/10)	Switching, VLANs, and the Spanning Tree Protocol	Chapter 13	
Week 17	Saturday	(5/17)	Switching, VLANs, and the Spanning Tree Protocol	Chapter 13	Lab #13
Week 18	Saturday	(5/24)	Review Final (chapters 1 to 13)		

*** Homework due dates to be announced.**