CS 176 – Introduction to Computer Communication Networks

Fall 1997

1 Course Information

Lecture:	Tuesday/Thursday; 12:30pm to 1:45pm (Phelps 1508)
Discussion:	Friday 1:00pm to 1:50pm (Phelps 1420), or
	Monday 12:00pm to 12:50pm (Broida 1015)

WWW Page: http://www.cs.ucsb.edu/~cs176/

Textbook: Andrew S. Tanenbaum, Computer Networks, 3rd Edition, Prentice-Hall, 1996.

Required Prerequisites: CS 130A-B – Data Structures and Algorithms I-II

Helpful Prerequisites: PSTAT 120A – Probability and Statistics

2 Professor Information

Kevin Almeroth
Office 2113, Engineering I
E-mail: almeroth@cs.ucsb.edu
Phone: 893-2777
Office Hours: Tuesday/Thursday; 1:45pm - 2:45pm (and open door policy)

3 Teaching Assistant Information

Hongjun Zhu
Office: CSIL, 1138, Engineering I
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Office Hours: Monday, 2:00pm-4:00pm; Thursday, 3:00pm-5:00pm or by appointment.

4 Student Evaluation

Written Assignments	25%	(5 @ 5% each)
Programming Assignments	20%	(2 @ 10% each)
Midterm Exam	25%	
Final	30%	

Written Assignments. Assignments are due at the beginning of class on the due date. Solutions will typically be handed out at the end of class on the same day. Therefore, turning in assignments after the end of class does not make much sense. **Some amount of discussion about assignments is encouraged, but sub-tasking is not allowed.**

Programming Assignments. The same rules apply to programming assignments as to written assignments. Additional requirements are that programs are to be written in C, and *in addition to a hard copy turned in at the beginning of class, you will need to turn in an electronic copy.* More on turn in procedures later.

Tests. There are two exams, both will be closed book, and will take place on the scheduled days. I would strongly encourage everyone to attend both exams.

5 Course Outline

	Date	Lecture Topic	Reading	Assignment
1	Th 9/25	Course Overview	Chap 1, especially Sect 1.4	
2	T 9/30	Physical Layer Overview	skim Chap 2	
		Data Link Layer – Errors	Sect 3.1, 3.2	
		Data Link Layer – CRC	Sect 3.2	
3	Th 10/2	DLL Protocols	Sect 3.3,3.4	
4	T 10/7	Catch up day		
5	Th 10/9	HDLC, PPP, SLIP	Sect 3.6	HW 1 due
6	T 10/14	Medium Access Control Overview	Sect 4.1-4.3	HW 2 due
		Aloha, Slotted Aloha		
7	Th 10/16	CSMA, CSMA/CD		
8	T 10/21	Midterm		HW 3 due
9	Th 10/23	Ethernet, Token Ring	Sect 4.5,4.6	
		Fast Ethernet, FIDDI		
10	T 10/28	Network Layer Overview	Sect 5.1	
11	Th 10/30	Routing Algorithms	Sect 5.2	
		Congestion Control	Sect 5.3	
12	T 11/4	IP	Sect 5.5	HW 4 due
13	Th 11/6	IP (cont)		
14	T 11/11	Catch up day		
15	Th 11/13	Transport Layer Overview	Sect 6.1-6.3	Lab 5 due
16	T 11/18	TCP and UDP	Sect 6.4	
17	Th 11/20	Application Layer	Chapter 7	HW 6 due
18	T 11/25	HTTP	Sect 7.6	
	Th 11/27	Thanksgiving – No Class		
19	T 12/2	Review	Chap 1 (again)	
20	Th 12/4	Networks in Practice		Lab 7 due
	M 12/8	Final Exam (12:00pm-3:00pm)		