

Syllabus

October 17, 2007

Date		Topic	Reading and Assignments
1.	Oct 23 Tu	Introduction: Network Definitions and Classifications	T1.1 –T1.2
2.	Oct 25 Th	Internet, TCP/IP, Sockets	T1.3, T1.5.1, D&C
3.	Oct 26 F	Network Performance Measures	
4.	Oct 29 M	OSI Model, Network Switching Schemes	T1.4, T2.5.5
5.	Oct 30 Tu	<i>Physical Layer</i> : Digital/Analog	<i>Handouts</i> , T2.1.2-T2.1.3
6.	Nov 1 Th	Data Encoding, T1, Multiplexing Transmission Media	T2.5-T2.5.3, T2.2-T2.4.T2.7 T2.5.4 Assignment 1 Due at midnight
7.	Nov 2 F	Error Detection & Correction, CRC	T3.2
8.	Nov 5 M	<i>Data Link Layer</i> : Framing,	T3.1 Team Partner List Due at 6 p.m.
9.	Nov 6 Tu	Bit and Byte Stuffing	T3.1.2
10.	Nov 8 Th	ARQ, Stop-and-Wait Sliding Window Protocols	T3.3b
11.	Nov 9 F	Go Back N and Selective Repeat	T3.4
12.	Nov 12 M	<i>MAC Layer</i> : Aloha, CSMA,	
13.	Nov 13 Tu	Review	
14.	Nov 15 Th	Mid Term Exam (closed book)	
15.	Nov 16 F	CSMA-CD, Ethernet	T4.1-T4.2 Assignment 2 Due at midnight
16.	Nov 19 M	Wireless Networks	T4.3-T4.4
17.	Nov 20 Tu	802.11a/b/g	Design Report Due at 4 p.m.
18.	Nov 26 M	Wireless Papers	
19.	Nov 27 Tu	FDDI, Fast Ethernet	
20.	Nov 29 Th	Gigabit Ethernet Ethernet Hubs Switches Bridges	T4.7
21.	Nov 30 F	SONET, ATM Switching	Tan pp.144-146
22.	Dec 3 M	ATM AAL Layers	<i>Handout</i> ; Tan pp.61-65 Assignment 3 Due at 10 a.m.
23.	Dec 4 Tu	<i>Network Layer</i> : Routing, Shortest Path	T5-T5.2.3
24.	Dec 6 Th	Link State, Distance Vector	T5.2.4-T5.2.5
25.	Dec 7 F	<i>Transport Layer</i> : TCP Congestion Control	T6.5-T6.5.9
26.	Dec 10 M	Security Issues: Denial of Service, Firewalls	T8.6-T8.6.3
27.	Dec 11 Tu	Review	
28.	Dec 13 Th	Final Exam (closed book)	
	Dec 14 F		Assignment 4 Due at Demo