

Syllabus

Date		Topic	Reading and Assignments
1.	Oct 25 Tu	Introduction: Network Definitions and Classifications	T1.1 –T1.2
2.	Oct 27 Th	Internet, TCP/IP, Sockets	T1.3, T1.5.1, Stevens
3.	Oct 28 F	Network Performance Measures	
4.	Oct 31 M	OSI Model, Network Switching Schemes	T1.4, T2.5.5
5.	Nov 1 Tu	<i>Physical Layer</i> : Digital versus Analog	<i>Handouts</i> , T2.1.2-T2.1.3
6.	Nov 3 Th	Data Encoding, T1, PCM Multiplexing	T2.5-T2.5.3 T2.5.4
7.	Nov 4 F	Transmission Media	T2.2-T2.4.T2.7 Assignment 1 Due
8.	Nov 7 M	Error Detection & Correction, CRC	T3.2
9.	Nov 8 Tu	<i>Data Link Layer</i> : Framing,	T3.1
10.	Nov 10 Th	Bit and Byte Stuffing	T3.1.2
11.	Nov 11 F	ARQ, Stop-and-Wait Sliding Window Protocols	T3.3b
12.	Nov 14 M	Go Back N and Selective Repeat	T3.4
13.	Nov 15 Tu	<i>MAC Layer</i> : Aloha, CSMA,	
14.	Nov 17 Th	CSMA-CD, Ethernet	T4.1-T4.2 Assignment 2 Due
15.	Nov 18 F	Review	
16.	Nov 21 M	Mid Term Exam (closed book)	
17.	Nov 22 Tu	Wireless Networks 802.11a/b/g	T4.3-T4.4 Design Report Due
18.	Nov 28 M	FDDI, Fast Ethernet	
19.	Nov 29 Tu	Experimental Measurements Wireless Papers	
20.	Dec 1 Th	Gigabit Ethernet Ethernet Hubs, Switches Bridges	T4.7
21.	Dec 2 F	SONET, ATM Switching	Tan pp.144-146 Assignment 3 Due
22.	Dec 5 M	ATM AAL Layers	<i>Handout</i> ; Tan pp.61-65
23.	Dec 6 Tu	<i>Network Layer</i> : Routing, Shortest Path	T5-T5.2.3
24.	Dec 8 Th	Link State, Distance Vector	T5.2.4-T5.2.5
25.	Dec 9 F	<i>Transport Layer</i> : TCP Congestion Control	T6.5-T6.5.9
26.	Dec 12 M	Security Issues: Denial of Service, Firewalls	T8.6-T8.6.3
27.	Dec 13 Tu	Review	Assignment 4 Due
28.	Dec 15 Th	FINAL EXAM (closed book)	