

Syllabus

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