

Syllabus
April 9, 2013

Week	Date	Topic / Paper	Reading
1	January 15	Introduction, Sockets	PD1.1-2, 1.4; DC1
2	January 22	Network Architecture, Network Switching, OSI Model, Network Performance Measures	PD1.3, 1.5, 3.1.1-3.1.2
3	January 29	Intro to Applications and TCP/UDP, HTTP, DNS	PD5.1-5.2.1, 9.1.2-3, 9.3.1
4	February 5	<i>Physical Layer: Data Encoding, Multiplexing, Transmission Media</i>	<i>Stallings Handout; PD2.1-2</i>
5	February 12	Error Detection/Correction, CRC, <i>Data Link Layer: Framing, Bit/Byte Stuffing, Stop and Wait</i>	PD2.3-2.4
6	February 19	Sliding Window Protocols, Go Back N, Selective Repeat, <i>MAC Sub Layer: Aloha, CSMA, CSMA-CD</i>	<i>Tanenbaum Handout; PD2.5-2.5.2</i>
7	February 26	Ethernet, FDDI, Bridges, <i>Mid Term Review</i>	PD2.5.3-2.6
	March 5	No Class	
8	March 12	Fast/Gigabit Ethernet, Mid Term Exam (two hour exam)	PD2.7; 4.4
9	March 19	<i>Wireless Networks: 802.11</i>	PD3.1.3-3.1.4,
10	March 26	<i>Lecture on Performance Measurement</i> Cellular Networks, Mobile, Wireless Sensor Networks (first part)	PD3.2
11	April 2	Wireless Sensor Networks (second part) <i>Network Layer: Link State and Distance Vector Routing, BGP,</i>	PD3.3-3.4, 4, PD5.2, 6
12	April 9	ARP, DHCP, NAT <i>Transport Layer: TCP Congestion Control</i>	PD8.4, papers
13	April 16	SONET, ATM, <i>Network Security: Firewalls, Final Review</i>	PD8.5
14	April 23	Final Exam (three hours)	