

Syllabus

April 21, 2011

Date	Topic	Reading and Assignments
1. Mar 14	M	Course Objectives and Procedures
2. Mar 15	T	Network Architecture, Protocols, Stacks K&R 1.5
3. Mar 17	Th	Network Performance Measures K&R 1.4
4. Mar 18	F	Review: Data Link Layer Tanen 3.3
5. Mar 21	M	Review: Data Link Layer Tanen 3.4
6. Mar 22	T	Framing, Byte Stuffing, K&R 5.1-5.2, 5.7.1, Tanen 3.1-3.2
7. Mar 24	Th	Cyclic Redundancy Checking (CRC)
8. Mar 25	F	<i>Physical Layer:</i> Design Proposal Due at 4 p.m.
9. Mar 28	M	Digital versus Analog
10. Mar 29	T	Data Encoding, T1, PCM
11. Mar 31	Th	Transmission Media
12. Apr 1	F	Review; LANs,
13. Apr 4	M	Mid Term Exam (closed book)
14. Apr 5	T	LANs
15. Apr 7	Th	Ethernet
16. Apr 8	F	Bridges, Hubs and Switches Program 1 Demos
17. Apr 11	M	Wireless Networks K&R 6.1-6.3
18. Apr 12	T	Cellular Networks K&R 6.4-6.5
19. Apr 14	Th	Mobile and Wireless Sensor Networks
20. Apr 15	F	Wireless Sensor Networks
21. Apr 19	T	TinyOS, nesc WLAN Measurement Report Due at 8 a.m.
22. Apr 22	F	TinyOS applications
23. Apr 25	M	Fast Ethernet, Gigabit Ethernet
24. Apr 26	T	SONET, ATM Switching Program 2 Due at 9 a.m.
25. Apr 28	Th	Network Security, Firewalls
26. Apr 29	F	Review
27. May 2	M	WSN demo Program 3 Due at 9 a.m.
28. May 3	T	FINAL EXAM (closed book)