

Syllabus

November 30, 2006

| Date | | Topic | Reading and Assignments |
|------|-----------|---|--|
| 1. | Oct 24 Tu | Introduction: Network Definitions and Classifications | T1.1 –T1.2 |
| 2. | Oct 26 Th | Internet, TCP/IP, Sockets | T1.3, T1.5.1, D&C |
| 3. | Oct 27 F | Network Performance Measures | |
| 4. | Oct 30 M | OSI Model, Network Switching Schemes | T1.4, T2.5.5 |
| 5. | Oct 31 Tu | <i>Physical Layer</i> : Digital/Analog | <i>Handouts</i> , T2.1.2-T2.1.3 |
| 6. | Nov 2 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 3 F | Error Detection & Correction, CRC | T3.2 |
| 8. | Nov 6 M | <i>Data Link Layer</i> : Framing, | T3.1 Team Partner List Due at 8 p.m. |
| 9. | Nov 7 Tu | Bit and Byte Stuffing | T3.1.2 |
| 10. | Nov 9 Th | ARQ, Stop-and-Wait Sliding Window Protocols | T3.3b |
| 11. | Nov 10 F | Go Back N and Selective Repeat | T3.4 |
| 12. | Nov 13 M | <i>MAC Layer</i> : Aloha, CSMA, | |
| 13. | Nov 14 Tu | Review | |
| 14. | Nov 16 Th | Mid Term Exam (closed book) | |
| 15. | Nov 17 F | CSMA-CD, Ethernet | T4.1-T4.2 Assignment 2 Due at midnight |
| 16. | Nov 20 M | Wireless Networks | T4.3-T4.4 |
| 17. | Nov 21 Tu | 802.11a/b/g | Design Report Due by 4 p.m. |
| 18. | Nov 27 M | Wireless Papers | |
| 19. | Nov 28 Tu | FDDI, Fast Ethernet | |
| 20. | Nov 30 Th | Gigabit Ethernet Ethernet Hubs Switches Bridges | T4.7 |
| 21. | Dec 1 F | SONET, ATM Switching | Tan pp.144-146 |
| 22. | Dec 4 M | ATM AAL Layers | <i>Handout</i> ; Tan pp.61-65 Assignment 3 Due by 1 p.m. |
| 23. | Dec 5 Tu | <i>Network Layer</i> : Routing, Shortest Path | T5-T5.2.3 |
| 24. | Dec 7 Th | Link State, Distance Vector | T5.2.4-T5.2.5 |
| 25. | Dec 8 F | <i>Transport Layer</i> : TCP Congestion Control | T6.5-T6.5.9 |
| 26. | Dec 11 M | Security Issues: Denial of Service, Firewalls | T8.6-T8.6.3 |
| 27. | Dec 12 Tu | Review | |
| 28. | Dec 14 Th | Final Exam (closed book) | |
| | Dec 15 F | | Assignment 4 Due at Demo |