

Class Schedule: Lecture Topics and Reading Assignments

Week 1	Aug 29, Aug 31
	Course overview, basic concepts in data communication networking, layering and communication network architectures (chap 1 & 2)
Week 2	Sept 5, Sept 7
	Fundamental concepts and theoretical basis for data transmission, Review of signals and systems, channel impairments (chap 3)
Week 3	Sept 12, Sept 14
	Nyquist Bandwidth, channel capacity, transmission media, guided and unguided transmission (chap 3 & 4)
Week 4	Sept 19, Sept 21
	Guided and unguided transmission; propagation, wireless transmission (chap 4)
Week 5	Sept 26, Sept 28
	Signal encoding techniques, signal constellations, quantization and PCM, transmission of analog and digital signals (chap 5)
Week 6	Oct 3, Oct 5 (Exam I)
	Review of materials and Problem Solving Session on Oct 3 will be conducted in class. Exam I will be for the duration of class on October 5
Week 7	Oct 10 (Columbus Day - No Class) , Oct 12
	Digital data communications techniques; synchronous and asynchronous transmission, error detection and correction (chap 6)
Week 8	Oct 17, Oct 19
	Digital data communications techniques; synchronous and asynchronous transmission, error detection and correction (chap 6)
Week 9	Oct 24, Oct 26
	Data link control protocol (chap 7) Stop and Wait, Window protocol
Week 10	Oct 31, Nov 2
	Determining utilization and throughput Multiplexing (chap 8)
Week 11	Nov 7, Nov 9
	Circuit and packet switching (chap 9) Cellular Networks (chap 10)
Week 12	Nov 14 (Exam II), Nov 16
	Exam II will be for the duration of class on November 14 Local Area Networks (chap 11)
Week 13	Nov 21, Nov 23 (Thanksgiving Day Holiday- No Class)
	Ethernet and VLANs (chap 12) Nov 23 (Holiday)
Week 14	Nov 28, Nov 30
	Wireless LANS (chap 13) Internet Protocols and Routing (chap 14)
Week 15	Dec 5, Dec 7
	Problem solving session on Dec 5 Wireshark will be demonstrated by Ben on Dec 7
Week 16	Dec 19 (Final Exam)
Exam	Final Exam on Tuesday December 19, 1:30 – 4:15 pm