

Class Schedule: Lecture Topics and Reading Assignments

Week 1	Aug 27, Aug 29 Course overview, basic concepts in data communication networking, layering and communication network architectures (chap 1 & 2)
Week 2	Sept 3, Sept 5 Fundamental concepts and theoretical basis for data transmission, channel impairments, channel capacity (chap 3)
Week 3	Sept 10, Sept 12 Review of signals and systems, transmission media, guided and unguided transmission (chap 4)
Week 4	Sept 17, Sept 19 Guided and unguided transmission; propagation, wireless transmission (chap 4)
Week 5	Sept 24, Sept 26 Signal encoding techniques, signal constellations, binary encoding techniques (chap 5)
Week 6	Oct 1, Oct 3 Signal encoding techniques, quantization and PCM, transmission of analog and digital signals (chap 5)
Week 7	Oct 8, Oct 10 Digital data communications techniques; synchronous and asynchronous transmission, error detection and correction (chap 6)
Week 8	Oct 15 (Columbus Day Holiday– No Class), Oct 17 (Exam I) Exam I will be for the duration of class on October 17
Week 9	Oct 22, Oct 24 Data link control protocol (chap 7)
Week 10	Oct 29, Oct 31 Multiplexing (chap 8)
Week 11	Nov 5, Nov 7 Circuit and packet switching (chap 10)
Week 12	Nov 12, Nov 14 Cellular Networks (chap 14) Local Area Networks (chap 15)
Week 13	Nov 19 (Exam II), Nov 21 Exam II will be for the duration of class on November 19 Local Area Networks (chap 15)
Week 14	Nov 26, Nov 28 (Thanksgiving Day Holiday– No Class) Ethernet and VLANs, Wireless LANs (chapter 16 & 17)
Week 15	Dec 3, Dec 5 Internet Protocols and Routing (chap 18)
Exam	Final Exam on Tuesday December 17, 1:30 – 4:15 pm