ECE 462- Tentative Course Schedule

Date	Lecture Topics and Reading Assignments
Aug 26/28	Course overview and Introduction: Packet and circuit switching, connection oriented/connectionless services, overview of data communication network architectures, layered architectures, OSI and TCP/IP protocol reference models; Chapters 1 and 2
Sept 2/4	Fundamental concepts and theoretical basis for data transmission, transmission impairments, transmission of analog and digital data, Nyquist bandwidth, channel capacity fundamental limits; Chapters 2 and 3
Sept 9/11	Transmission Media, guided and unguided transmission; propagation, wireless transmission, Chapter 4
Sept 16/18	Signal encoding techniques, transmission medium, modem signal constellations, quantization, PCM, binary encoding techniques, transmission of analog and digital signals, transmission media; Chapter 5
Sept 23/25	Digital data communications techniques; Chapter 6
Sept 30/Oct 2	Review and Digital data communications techniques; Chapter 6 **Test 1 on Oct 2**
Oct 7/9	Data Link Control Protocol; Chapter 7
Oct 14/16	Data Link Control Protocol; Chapter 7
Oct 21/23	Multiplexing; Chapter 8 Circuit and packet switching; Chapter 10
Oct 28/30	ATM; Chapter 11 Problem Session
Nov 4/6	**Test 2 on Nov 4**, Routing in Switched Networks; Chapter 12
Nov 11/13	Routing in Switched Networks; Chapter 12 Medium Access Control; Chapter 15
Nov 18/20	Local Area Networks; Chapter 15 & 16 Cellular Networks; Chapter 14
Nov 25/27	Wireless LANS; Chapter 17 Internet Protocols; Chapter18 **Thanksgiving on Nov 27**
Dec 2/4	Transport Layer; TCP/IP; Chapter 20 Network Security, Chapter 21
Dec 16	**Final Exam**