

## TENTATIVE SCHEDULE

Week #	Dates	Topics
1	1/25 - 1/31	Introduction, Common Terms, Network Characteristics & Classification
2	2/1 - 2/7	Network Topologies, Circuit and Packet-Switching, Error Classification, Services and Functions of Communication Hardware/Software, Layers, Protocols & Services, The ISO-OSI Reference Model
3	2/8 - 2/14	The ISO-OSI (contd.) & TCP/IP Reference Models, their differences, Network Evolution – illustrations
4	2/15 - 2/21	Measurements and Performance Metrics, The Delay-Bandwidth Product and its significance, the ‘ping’ tool
5	2/22 - 2/28	Quiz 1 (2/23 during lab), PHY Layer: Transmission Media & their Characteristics, Information theory - Nyquist and Shanon-Hartley theorems
6	3/1 - 3/7	Data transmission – Modulation, Encoding, DL Layer: Framing
7	3/8 - 3/14	Quiz 2 (3/2 during lab), DL contd.: Error Detection – Parity, Checksum, CRC.
8	3/15 - 3/21	MIDTERM (3/15 during class), Error Recovery with ARQ: Stop-and-Wait & Sliding Window Protocols
9	3/22 - 3/28	Ethernet, Channel Access using CSMA/CD, Intro to Switching/Routing
10	3/29 – 4/4	Quiz 3 (3/30 during lab) ISO-OSI Switching – Datagram, VC, Source-based
11	4/5 - 4/11	ISO-OSI Switching – Datagram, VC, Source-based, Bridges – STP Protocol
12	4/12 - 4/18	Quiz 4 (4/13 during lab), IP Protocol – Addressing, Packet Forwarding, Masks & Subnets, CIDR, Related Protocols – ARP, DHCP. ICMP, IP Tunnels & VPNs
13	4/19 - 4/25	IP Routing – DV, OSPF, BGP, Switching Fabrics, Network Processors
14	4/26 - 5/2	DNS – Architecture & Records, Final Review (if time permits)
15	5/3 - 5/9	No Classes on 5/3 - follows Friday Class Schedule, FINAL EXAM on 5/6 @ 11:30 am (online only)

SNOW DAY: 2/1