

CPTR 328 Principles of Networking Fall 2025

Date	Reading Assignment	Homework Problems / See Eclass for Quizzes
25-Aug	Introduction	
27-Aug	L01: 1.1-1.3 Protocol, Access Networks, Packet, Circuit	
29-Aug	L02: 1.4 Basic fundamentals of Network Measures/Delay	HW01 (1.1-1.3): 2, 4 (install wireshark on your computer and bring it to class next time.)
1-Sep	L03: 1.5-1.7 Layers	HW02 (1.4): 6, 8, 13, 16, 25
3-Sep	L04: 2.1 Principles of Network Applications	HW03 (1.5-1.7): Complete Wireshark Intro
5-Sep	L05: 2.2 HTTP	
8-Sep	L06: 2.3-2.4 Email and DNS	HW04 (2.2): 4, 5, 9, 10, 11
10-Sep	L07: 2.6 Video and Content Distribution Networks	HW05 (2.3-2.4): Problems 13, 17, 18a-e, 19
12-Sep	L08: 2.7 Programming a network application	
15-Sep	L09: 2.7 Programming cont.	
17-Sep	Programming Cont.	
19-Sep	Programming Cont.	
22-Sep	Programming Cont. / Review for Chapter 1-2 Exam	PJ01: Project Proposal Due
24-Sep	Exam 1-2: Chapters 1-2	
26-Sep	L11: 3.1-3.3 Transport, Multiplexing, UDP	HW06: Prog. Assign. #1 - See Template Directions
29-Sep	L12: 3.4 RDT (Long quiz warning)	HW07 (3.2): Problems 2, 3, 4
1-Oct	L13: 3.4 RDT continued	
3-Oct	L14: 3.5 TCP	HW08 (3.4): Problems 9, 12, 15, 21, 23
6-Oct	L15: 3.6 Principles of Congestion Control	HW09 (3.5): Problems 26, 27, 32
8-Oct	L16: 3.7-3.8 TCP Congestion Control & QUIC HTTP/3	
10-Oct	L17: 4.1-4.2	HW10 (3.6-3.7): Problems 38, 40, 57, Wireshark: Exploring TCP-start early, this will take longer!
13-Oct	L18: 4.3 IPv4 Addressing	HW11 (4.1-4.2): 2, 3, 6, 8, 9
15-Oct	L18: 4.3 IPv4 Addressing cont.	
17-Oct	Midterm Break	
20-Oct	L19: 4.3 IPv4/IPv6 Addressing	PJ02: Project Due
22-Oct	Review for Chapter 3	
24-Oct	Exam 3: Chapters 3	
27-Oct	L20: 4.4-4.6 SDN /Middle Boxes / Review / Project Q&I	HW12 (4.3): 11, 12, 14, 15, 17
29-Oct	L21: 5.1-5.2: Introduction and Link State	HW13 (4.4-4.5): 18, 21
31-Oct	L22: 5.2 Distance Vector	
3-Nov	L23: 5.3 OSPF Intra-AS routing	HW14 (5.1+LS): 3, 4 v&z only
5-Nov	L24: 5.4 BGP	HW15 (DV+5.2): 5
7-Nov	Exam 4: Chapter 4	
10-Nov	L25: 5.5 SDN Control Plane	HW16 (5.3-5.4): 14, 15
12-Nov	L26: 5.6 - 5.7 ICMP, SNMP, NETCONF/YANG	HW17 (5.5): R14, R16
14-Nov	L27: 6.1-6.2	HW18 (5.6-5.7): 22
17-Nov	L28: 6.3 Multiple Access Links/Protocols	HW19 (6.1-6.2): 1, 2, 5, 6
19-Nov	L29: 6.3 Cont.	
21-Nov	L30: 6.4 Switched Local Area Networks	HW20 (6.3): 12, 17
24-Nov	Thanksgiving Break	
26-Nov	Thanksgiving Break	
28-Nov	Thanksgiving Break	
1-Dec	L31: 6.5 Link Virtualization	HW21 (6.4): 23, 24, 26
3-Dec	L32: 6.6 Datacenter Networking	
5-Dec	L33: 6.7 Retrospective	HW22 (6.5-6.6): 28, 32
8-Dec	Exam 5-6: Chapters 5-6	
10-Dec	L34: 7.X WiFi Architecture and Management	HW23: Wireshark (802.11)
12-Dec	Review for Final + Inclass WiFi Exercise (TBA)	
TBA	Final Exam - See the official schedule for times and policy	