CS 372 Introduction to Computer Networks Course Calendar* Spring 2020

NOTE: Weeks are shown Sunday through Sunday. Assignments are due each Sunday, unless otherwise noted. *NOTE: Subject to change based on material pace

New Assignments in RLACK. Due Assignments in RED

New Assignments	s in BLACK. Due Assignments in RED
Unit / Week	Topics
#1: 03/29 – 04/05 Week 1 Summary Exercises Discussion: Introduce Yourself Syllabus Quiz Lab #1	 Basic concepts Networking metrics Network protocols Network edge/core Circuit-switching / Packet-switching
Week 1 Summary Exercises Syllabus Quiz Discussion: Introduce Yourself	Read K&R Chapter 1.1 – 1.4
#2: 04/05 – 04/12 Week 2 Summary Exercises Project #1	 Physical media Layering models Security issues Application layer
Week 2 Summary Exercises Lab #1	Read K&R Chapter 1.5 – 1.8, 2.1
#3: 04/12 – 04/19 Week 3 Summary Exercises Lab #2 Week 3 Summary Exercises Project #1	 Application layer protocols Hypertext Transfer Protocol (HTTP) File Transfer Protocol (FTP) Mail (SMTP, POP3, IMAP) Domain Name Services (DNS) Network byte order Read K&R Chapter 2.2 – 2.4, 2.7 (2.6 optional)
#4: 04/19 – 04/26 Week 4 Summary Exercises Video Demo #1 Project #2 Week 4 Summary Exercises Lab #2	 Transport Layer Introduction Multiplexing/Demultiplexing Socket programming primer Transport Layer Connectionless transport Connection-oriented transport Reliable Data Transfer
	Read K&R Chapter 3.1 – 3.3, 3.5.4

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#5: 04/26 – 05/03 Week 5 Summary Exercises Lab #3 Week 5 Summary Exercises Video Demo #1 Project #2	 Transport Layer Transmission Control Protocol (TCP) User Datagram Protocol (UDP) Flow control Sliding window Read K&R Chapter 3.4 – 3.5 (Re-read 3.5.4)
#6: 05/03 – 05/10 Week 6 Summary Exercises Project #3 Week 6 Summary Exercises Lab #3	 Transport Layer Congestion control TCP Connections Setup & Teardown TCP Fairness Read K&R Chapter 3.6 – 3.8
	Midterm Exam (Available Thursday – Sunday only)
#7: 05/10 – 05/17 Week 7 Summary Exercises Lab #4 Week 7 Summary Exercises Project #3	 Network Layer Introduction Internet protocols Datagram Routing & Forwarding Internet Protocol (IPv4) Header Routing vs. Forwarding Network Layer Classless Inter-Domain Routing (CIDR) Dynamic Host Configuration Protocol (DHCP)
#0. 05/17 05/24	Read K&R Chapter 4.1 – 4.3
#8: 05/17 – 05/24 Week 8 Summary Exercises Project #4 Week 8 Summary Exercises Lab #4	 Network Layer Routing algorithms Fragmentation Internet Control Message Protocol (ICMP) Network Address Translation (NAT, NAPT) Read K&R Chapter 5.1 – 5.3, 5.6
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#9: 05/24 – 05/31 Week 9 Summary Exercises Video Demo #2 Lab #5 Week 9 Summary Exercises Project #4	 Network Layer Internet Protocol (IPv6) Link Layer Network interfaces Multiple Access protocols MAC addresses Address Resolution Protocol (ARP) Local Area Networks (LAN) Ethernet Read K&R Chapter 6.1 – 6.4, 6.7
#10: 05/31 – 06/07 Week 10 Summary Exercises Video Demo #2 due FRIDAY Lab #5 due FRIDAY Week 10 Summary Exercises	 Link Layer Ethernet Frame and Multiple Access Wireless networks Networking Mobility Network security Cryptography Read K&R Chapter 7.1 – 7.3, 8.1 – 8.3
#11: Final Exam Dates: 06/05 – 06/08	Final Exam (Available Friday – Monday only)