CS 372 Introduction to Computer Networks Course Calendar* Spring 2018

*NOTE: Weeks are shown Sunday through Sunday. Assignments are due the 2nd Sunday, unless otherwise noted. *NOTE: Subject to change based on material pace

New Assignments in BLACK. Due Assignments in RED

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Unit / Week	Topics	
#1: 04/01 – 04/08	Basic conceptsNetworking metrics	
Lab #1 is assigned	Network protocolsNetwork edge/core	
Weekly Summary #1 assigned Weekly Summary #1 due	Circuit-switching / Packet-switching Read K&R Chapter 1.1 – 1.4	
#2: 04/08 – 04/15	Physical media	
Lab #1 is due	 Layering models Security issues 	
Weekly Summary #2 assigned	• Application layer Read K&R Chapter 1.5 – 1.8, 2.1	
Weekly Summary #2 due	Read Rear Chapter 1.5 1.0, 2.1	
#3: 04/15 – 04/22	 Application layer protocols Hypertext Transfer Protocol (HTTP) 	
Lab #2 is assigned	File Transfer Protocol (FTP)Mail (SMTP, POP3, IMAP)	
Quiz #1	Domain Name Services (DNS)Network byte order	
Weekly Summary #3 assigned Weekly Summary #3 due	Read K&R Chapter 2.2 – 2.4, 2.7 (2.6 optional)	
#4: 04/22 – 04/29	Transport Layer	
Program #1 is assigned	Socket programmingMultiplexing/DemultiplexingConnectionless transport	
Lab #2 is due	Connection-oriented transport	
Weekly Summary #4 assigned Weekly Summary #4 due	 User Datagram Protocol (UDP) Reliable Data Transfer Read K&R Chapter 3.1 – 3.3 	
#5: 04/29 – 05/06	Reliable Data Transfer	
Lab #3 is assigned	 Transmission Control Protocol (TCP) Flow control Read K&R Chapter 3.4 – 3.5 	
Program #1 is due	-	
Weekly Summary #5 assigned Weekly Summary #5 due		

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# 6 : 05/06 – 05/13	Congestion control
	• Fairness
Lab #3 is due	Network layer
	Read K&R Chapter 3.6 – 3.8
Midterm Exam	
Weekly Summary #6 assigned	Midterm Exam
Weekly Summary #6 due	(Available Thursday – Sunday only)
# 7 : 05/13 – 05/20	Virtual circuits
	Internet protocols
Lab #4 is assigned	Datagram routing
	• Internet Protocol (IPv4)
Program #2 is assigned	Classless Inter-Domain Routing (CIDR)
	Dynamic Host Configuration Protocol (DHCP)
Weekly Summary #7 assigned	Read K&R Chapter 4.1 – 4.3
Weekly Summary #7 due	-
#8: 05/20 – 05/27	Routing algorithms
0 . "	Fragmentation
Quiz #2	Internet Control Message Protocol (ICMP)
T. D. #41: 1	 Network Address Translation (NAT, NAPT)
Lab #4 is due	Read K&R Chapter 5.1 – 5.3, 5.6
Weekly Summary #8 assigned	
Weekly Summary #8 due	
# <mark>9:</mark> 05/27 – 06/03	Internet Protocol (IPv6)
	Link Layer
Lab #5 is assigned	Network interfaces
	Multiple Access protocols
Program #2 is due	MAC addresses
	Address Resolution Protocol (ARP)
Weekly Summary #9 assigned	Local Area Networks (LAN)
Weekly Summary #9 due	o Ethernet
	Read K&R Chapter 6.1 – 6.4, 6.7
# <mark>10</mark> : 06/03 – 06/10	Wireless networks
	Network security
Lab #5 is due	Read K&R Chapter 7.1 – 7.3, 8.1 – 8.3
Weekly Summary #10 assigned	
Weekly Summary #10 due	
# 11 : 06/10 – 06/13	Final Exam
Finals Week	
	(Available Sunday – Wednesday only)