CS 372 Introduction to Computer Networks
Course Calendar* Summer 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

Unit / Week	Topics
#1: 06/24 – 07/01 **Week 1 Summary Exercises** **Syllabus Quiz** **Lab #1** **Week 1 Summary Exercises** **Syllabus Quiz**	• Basic concepts • Networking metrics • Network protocols • Network edge/core • Circuit-switching / Packet-switching **Read** K&R Chapter 1.1 – 1.4
#2: 07/01 – 07/08 **Week 2 Summary Exercises** **Week 2 Summary Exercises** **Lab #1**	• Physical media • Layering models • Security issues • Application layer **Read** K&R Chapter 1.5 – 1.8, 2.1

#3: 07/08 – 07/15
 	
Week 3 Summary Exercises
Quiz #1
Lab #2
 	
Week 3 Summary Exercises
Quiz #1
	• Application layer protocols
	  o Hypertext Transfer Protocol (HTTP)
	  o File Transfer Protocol (FTP)
	  o Mail (SMTP, POP3, IMAP)
	  o Domain Name Services (DNS)
	  ▪ Network byte order
	• Transport Layer
	  o Introduction
	  o Multiplexing/Demultiplexing
	
	Read K&R Chapter 2.2 – 2.4, 2.7 (2.6 optional), 3.1 – 3.2

#4: 07/15 – 07/22
 	
Week 4 Summary Exercises
Program #1
 	
Week 4 Summary Exercises
	• Socket programming primer
	• Transport Layer
	  o Connectionless transport
	  o Connection-oriented transport
	  o Reliable Data Transfer
	  o Transmission Control Protocol (TCP)
	  o User Datagram Protocol (UDP)
	  o Flow control
	
	Read K&R Chapter 3.3 – 3.5
	
	Midterm Exam
	(Available Saturday – Monday only)

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#5: 07/22 – 07/29 **Week 5 Summary Exercises** **Lab #3** **Week 5 Summary Exercises** **Lab #2** **Program #1**	• Transport Layer o Congestion control o TCP Connections & Fairness • Network Layer o Introduction o Internet protocols o Datagram Routing & Forwarding o Internet Protocol (IPv4) Header o Routing vs. Forwarding **Read** K&R Chapter 3.6 – 3.8, 4.1 – 4.2
#6: 07/29 – 08/05 **Week 6 Summary Exercises** **Quiz #2** **Program #2** **Week 6 Summary Exercises** **Quiz #2** **Lab #3**	• Network Layer o Classless Inter-Domain Routing (CIDR) o Dynamic Host Configuration Protocol (DHCP) o Routing algorithms o Fragmentation o Internet Control Message Protocol (ICMP) **Read** K&R Chapter 4.3, 5.1 – 5.3, 5.6
#7: 08/05 – 08/12 **Week 7 Summary Exercises** **Lab #4** **Week 7 Summary Exercises** **Program #2**	• Network Layer o Network Address Translation (NAT, NAPT) o Internet Protocol (IPv6) • Link Layer o Network interfaces o Multiple Access protocols o MAC addresses o Address Resolution Protocol (ARP) o Local Area Networks (LAN) ▪ Ethernet **Read** K&R Chapter 6.1 – 6.4, 6.7
#8: 08/12 – 08/19 **Week 8 Summary Exercises** **Week 8 Summary Exercises** **Lab #4 due FRIDAY** **Final Exam Dates:**	• Link Layer o Ethernet Frame and Multiple Access o Wireless networks o Networking Mobility • Network security • Cryptography **Read** K&R Chapter 7.1 – 7.3, 8.1 – 8.3 **Final Exam** **(Available Thursday – Sunday only)**