CS 372 Introduction to Computer Networks
Course Calendar*   Fall 2017

*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: 09/24 – 10/01 **Lab #1** is assigned **Weekly Summary #1** assigned **Weekly Summary #1** due	• Basic concepts • Networking metrics • Network protocols • Network edge/core • Circuit-switching / Packet-switching **Read** K&R Chapter 1.1 – 1.4
#2: 10/01 – 10/08 **Lab #1** is due **Weekly Summary #2** assigned **Weekly Summary #2** due	• Physical media • Layering models • Security issues • Application layer **Read** K&R Chapter 1.5 – 1.8, 2.1

#3: 10/08 – 10/15
 	
Lab #2 is assigned
 	
Quiz #1
 	
Weekly Summary #3 assigned
Weekly Summary #3 due
	• 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
	Read K&R Chapter 2.2 – 2.4, 2.7 (2.6 optional)

#4: 10/15 – 10/22 **Program #1** is assigned **Lab #2** is due **Weekly Summary #4** assigned **Weekly Summary #4** due	• Transport Layer • Socket programming • Multiplexing/Demultiplexing • Connectionless transport • Connection-oriented transport • User Datagram Protocol (UDP) • Reliable Data Transfer **Read** K&R Chapter 3.1 – 3.3
#5: 10/22 – 10/29 **Lab #3** is assigned **Program #1** is due **Weekly Summary #5** assigned **Weekly Summary #5** due	• Reliable Data Transfer • Transmission Control Protocol (TCP) • Flow control **Read** K&R Chapter 3.4 – 3.5

#6: 10/29 – 11/05 **Lab #3** is due **Midterm Exam** **Weekly Summary #6** assigned **Weekly Summary #6** due	• Congestion control • Fairness • Network layer **Read** K&R Chapter 3.6 – 3.8 ## Midterm Exam ### (Available Thursday – Sunday only)
#7: 11/05 – 11/12 **Lab #4** is assigned **Program #2** is assigned **Weekly Summary #7** assigned **Weekly Summary #7** due	• Virtual circuits • Internet protocols • Datagram routing • Internet Protocol (IPv4) • Classless Inter-Domain Routing (CIDR) • Dynamic Host Configuration Protocol (DHCP) **Read** K&R Chapter 4.1 – 4.3
#8: 11/12 – 11/19 **Quiz #2** **Lab #4** is due **Weekly Summary #8** assigned **Weekly Summary #8** due	• Routing algorithms • Fragmentation • Internet Control Message Protocol (ICMP) • Network Address Translation (NAT, NAPT) **Read** K&R Chapter 5.1 – 5.3, 5.6
#9: 11/19 – 11/26 **Lab #5** is assigned **Program #2** is due **Weekly Summary #9** assigned **Weekly Summary #9** due	• Internet Protocol (IPv6) • Link Layer • Network interfaces • Multiple Access protocols • MAC addresses • Address Resolution Protocol (ARP) • Local Area Networks (LAN) o Ethernet **Read** K&R Chapter 6.1 – 6.4, 6.7
#10: 11/26 – 12/03 **Lab #5** is due **Weekly Summary #10** assigned **Weekly Summary #10** due	• Wireless networks • Network security **Read** K&R Chapter 7.1 – 7.3, 8.1 – 8.3
#11: 12/03 – 12/06 Finals Week	## Final Exam ### (Available Sunday – Wednesday only)