

CS 372 Introduction to Computer Networks

Course Calendar* Fall 2019

*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: 09/29 – 10/06 Lab #1 is assigned Weekly Summary #1 assigned Weekly Summary #1 due	<ul style="list-style-type: none"> • Basic concepts • Networking metrics • Network protocols • Network edge/core • Circuit-switching / Packet-switching Read K&R Chapter 1.1 – 1.4
#2: 10/06 – 10/13 Lab #1 is due Weekly Summary #2 assigned Weekly Summary #2 due	<ul style="list-style-type: none"> • Physical media • Layering models • Security issues • Application layer Read K&R Chapter 1.5 – 1.8, 2.1
#3: 10/13 – 10/20 Lab #2 is assigned Quiz #1 Weekly Summary #3 assigned Weekly Summary #3 due	<ul style="list-style-type: none"> • Application layer protocols <ul style="list-style-type: none"> ○ Hypertext Transfer Protocol (HTTP) ○ File Transfer Protocol (FTP) ○ Mail (SMTP, POP3, IMAP) ○ Domain Name Services (DNS) <ul style="list-style-type: none"> ▪ Network byte order Read K&R Chapter 2.2 – 2.4, 2.7 (2.6 optional)
#4: 10/20 – 10/27 Program #1 is assigned Lab #2 is due Weekly Summary #4 assigned Weekly Summary #4 due	<ul style="list-style-type: none"> • 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: 10/27 – 11/03 Lab #3 is assigned Program #1 is due Weekly Summary #5 assigned Weekly Summary #5 due	<ul style="list-style-type: none"> • Reliable Data Transfer • Transmission Control Protocol (TCP) • Flow control Read K&R Chapter 3.4 – 3.5

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<p>#6: 11/03 – 11/10</p> <p>Lab #3 is due</p> <p>Midterm Exam</p> <p>Weekly Summary #6 assigned Weekly Summary #6 due</p>	<ul style="list-style-type: none"> • Congestion control • Fairness • Network layer <p>Read K&R Chapter 3.6 – 3.8</p> <p style="text-align: center;">Midterm Exam (Available Thursday – Sunday only)</p>
<p>#7: 11/10 – 11/17</p> <p>Lab #4 is assigned</p> <p>Program #2 is assigned</p> <p>Weekly Summary #7 assigned Weekly Summary #7 due</p>	<ul style="list-style-type: none"> • Virtual circuits • Internet protocols • Datagram routing • Internet Protocol (IPv4) • Classless Inter-Domain Routing (CIDR) • Dynamic Host Configuration Protocol (DHCP) <p>Read K&R Chapter 4.1 – 4.3</p>
<p>#8: 11/17 – 11/24</p> <p>Quiz #2</p> <p>Lab #4 is due</p> <p>Weekly Summary #8 assigned Weekly Summary #8 due</p>	<ul style="list-style-type: none"> • Routing algorithms • Fragmentation • Internet Control Message Protocol (ICMP) • Network Address Translation (NAT, NAPT) <p>Read K&R Chapter 5.1 – 5.3, 5.6</p>
<p>#9: 11/24 – 12/01</p> <p>Lab #5 is assigned</p> <p>Program #2 is due</p> <p>Weekly Summary #9 assigned Weekly Summary #9 due</p>	<ul style="list-style-type: none"> • Internet Protocol (IPv6) • Link Layer • Network interfaces • Multiple Access protocols • MAC addresses • Address Resolution Protocol (ARP) • Local Area Networks (LAN) <ul style="list-style-type: none"> ◦ Ethernet <p>Read K&R Chapter 6.1 – 6.4, 6.7</p>
<p>#10: 12/01 – 12/08</p> <p>Lab #5 is due</p> <p>Weekly Summary #10 assigned Weekly Summary #10 due</p>	<ul style="list-style-type: none"> • Wireless networks • Network security <p>Read K&R Chapter 7.1 – 7.3, 8.1 – 8.3</p>
<p>#11: 12/08 – 12/11</p> <p>Finals Week</p>	<p style="text-align: center;">Final Exam (Available Sunday – Wednesday only)</p>