## CS 372 Introduction to Computer Networks Course Calendar Winter 2021

Notes: Weeks are shown Monday through Monday, Assignments are due Monday nights, unless otherwise noted, schedule tentative New Assignments in BLACK. Due Assignments in RED

Module	BLACK. Due Assignments in RED       Topics
#0: Before week 1	Get familiar, look ahead
#0. Before week 1 #1: 04 January $- 11$ January	Basic concepts
Syllabus Quiz	Networking metrics
Module 1 Summary Exercises	Network protocols
Discussion: Introduce Yourself	Network edge/core
Lab #1	Circuit-switching / Packet-switching
	Circuit-switching / I acket-switching
Syllabus Quiz	<b>Read</b> K&R Chapter $1.1 - 1.4$
Module 1 Summary Exercises	
Discussion: Self Intro, Video due Friday	
#2: 11 January – 18 January	Physical media
Module 2 Summary Exercises	Layering models
Project #1	Security issues
	Application layer
Module 2 Summary Exercises	
Lab #1	<b>Read</b> K&R Chapter 1.5 – 1.8, 2.1
#3: 18 January – 25 January	Application layer protocols:
Module 3 Summary Exercises	Hypertext Transfer Protocol (HTTP)
Lab #2	<ul> <li>File Transfer Protocol (FTP)</li> </ul>
	Mail (SMTP, POP3, IMAP)
Module 3 Summary Exercises	<ul> <li>Domain Name Services (DNS)</li> </ul>
Project #1	Network byte order
	Network byte order
	<b>Read</b> K&R Chapter 2.2 – 2.4, 2.7 (2.6 optional)
#4: 25 January – 01 February	Transport Layer
Module 4 Summary Exercises	Introduction
Project #2	Multiplexing/Demultiplexing
	Socket programming primer
Module 4 Summary Exercises	Transport Layer
Lab #2	Connectionless transport
	Connection-oriented transport
	Reliable Data Transfer
	Terracio Duna Transfer
	<b>Read</b> K&R Chapter 3.1 – 3.3, 3.5.4
#5:01 February – 08 February	Transport Layer
Module 5 Summary Exercises	Transmission Control Protocol (TCP)
Lab #3	• User Datagram Protocol (UDP)
Discussion: Modules 1-5, Video Demo #1	• Flow control
	Sliding window
Module 5 Summary Exercises	
Lab #3	<b>Read</b> K&R Chapter 3.4 – 3.5 (Re-read 3.5.4)
Discussion: Modules 1-5, Video Demo #1	
due Friday	

Midterm Exam Dates       Findeterm Exam Dates         #6: 08 February - 15 February       Module 6 Summary Exercises         Module 6 Summary Exercises       - Congestion control         #7: 15 February - 22 February       - Congestion control         Module 7 Summary Exercises       - TCP Connections Setup & Teardown         #7: 15 February - 22 February       - Network Layer         Module 7 Summary Exercises       - Introduction         ab #4       - Internet protocols         Module 7 Summary Exercises       - Internet protocol (IPv4) Header         Module 8 Summary Exercises       - Classless Inter-Domain Routing (CIDR)         Module 8 Summary Exercises       - Routing algorithms         Module 8 Summary Exercises       - Read K&R Chapter 5.1 – 5.3, 5.6         Module 9 Summary Exercises       - Internet Protocol (IPv6)         Lab #4       - Network Layer         Module 9 Summary Exercises       - Internet Protocol (IPv6)         Lab #5       - Internet Protocol (IPv6)         Link Layer       - Network interfaces         Module 9 Summary Exercises       - Multiple Access protocols         Module 9 Summary Exercises       - Ethernet Frame and Multiple Access         Module 9 Summary Exercises       - Ethernet Frame and Multiple Access         Network Raper 6.1 – 6.4, 6.7       -	Midterm: 08 February – 15 February	Midterm Exam (covers weeks 1-5)
Module 6 Summary Exercises <ul> <li>Congestion control</li> <li>TCP Connections Setup &amp; Teardown</li> <li>TCP Fairness</li> </ul> #7: 15 February – 22 February Module 7 Summary Exercises              Read K&R Chapter 3.6 – 3.8          #7: 15 February – 22 February Module 7 Summary Exercises              Network Layer          Module 7 Summary Exercises              Internet protocols          #8: 22 February – 01 March Module 8 Summary Exercises              Network Layer          Module 8 Summary Exercises              Network Layer          Module 8 Summary Exercises              Network Layer          Module 9 Summary Exercises              Network interfaces          Module 9 Summary Exercises              Network layer          Module 9 Summary Exercises              Network interfaces	Midterm Exam Dates	TVHULLI III L'AAIII (COVETS WEEKS 1-3)
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Module 6 Summary Exercises       • TCP Fairness         #7: 15 February – 22 February       Network Layer         Module 7 Summary Exercises       • Internet protocols         Lab #4       • Internet protocols         Module 7 Summary Exercises       • Internet protocol (IPv4) Header         • Outing vs. Forwarding       • Internet protocol (IPv4) Header         • Outing vs. Forwarding       • Internet protocol (IPv4) Header         • Routing vs. Forwarding       • Internet Protocol (IPv4) Header         • Routing vs. Forwarding       • Internet Protocol (IPv4) Header         • Routing vs. Forwarding       • Internet Protocol (IDR)         • Dynamic Host Configuration Protocol (DHCP)       Read K&R Chapter 4.1 – 4.3         Module 8 Summary Exercises       Network Layer         Lab #4       • Routing algorithms         • Internet Control Message Protocol (ICMP)       • Network Address Translation (NAT, NAPT)         Read K&R Chapter 5.1 – 5.3, 5.6       Network Layer         Module 9 Summary Exercises       • Internet Protocol (Ipv6)         Lab #5       • Network interfaces         Module 9 Summary Exercises       • Multiple Access protocols         Module 9 Summary Exercises       • Address Resolution Protocol (ARP)         • Lick Layer       • Network interfaces         • Address Resolution	Module 6 Summary Exercises	Congestion control
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Module 7 Summary Exercises <ul> <li>Introduction</li> <li>Internet protocol</li> <li>Datagram Routing &amp; Forwarding</li> <li>Internet Protocol (IPv4) Header</li> <li>Routing vs. Forwarding</li> <li>Classless Inter-Domain Routing (CIDR)</li> <li>Dynamic Host Configuration Protocol (DHCP)</li> </ul> #8: 22 February – 01 March         Read K&R Chapter 4.1 – 4.3           Module 8 Summary Exercises         Network Layer           Module 8 Summary Exercises <ul> <li>Internet Protocol (IPv4)</li> <li>Read K&amp;R Chapter 4.1 – 4.3</li> </ul> Module 8 Summary Exercises <ul> <li>Routing algorithms</li> <li>Fragmentation</li> <li>Internet Protocol (ICMP)</li> <li>Network Layer</li> <li>Network Layer</li> <li>Network Layer</li> <li>Internet Protocol (Ipv6)</li> <li>Link Layer</li> <li>Network Layer</li> <li>Internet Protocol (Ipv6)</li> <li>Link Layer</li> <li>Network interfaces</li> <li>Multiple Access protocols</li> <li>MAC address Resolution Protocol (ARP)</li> <li>Local Area Networks (LAN)</li> <li>Ethernet</li> </ul> <li>Read K&amp;R Chapter 6.1 – 6.4, 6.7</li> <li>Link Layer</li> <li>Ethernet Frame and Multiple Access</li> <li>Wreless networks</li> <li>Network security</li> <li>Ethernet Frame and Multiple Access</li> <li>Wreless networks</li> <li>Network security</li> <li>Cryptography</li>		
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Module 8 Summary Exercises Lab #4• Routing algorithms • Fragmentation • Internet Control Message Protocol (ICMP) • Network Address Translation (NAT, NAPT)Read K&R Chapter 5.1 - 5.3, 5.6#9: 01 March - 08 March Module 9 Summary Exercises Lab #5 Project #4Network Layer • Internet Protocol (Ipv6) Link Layer 	#8: 22 February $-01$ March	· · · · · · · · · · · · · · · · · · ·
<ul> <li>Fragmentation</li> <li>Internet Control Message Protocol (ICMP)</li> <li>Network Address Translation (NAT, NAPT)</li> <li>Read K&amp;R Chapter 5.1 – 5.3, 5.6</li> <li>#9: 01 March – 08 March</li> <li>Module 9 Summary Exercises</li> <li>Internet Protocol (Ipv6)</li> <li>Link Layer</li> <li>Network interfaces</li> <li>Multiple Access protocol (ARP)</li> <li>Local Area Networks (LAN)</li> <li>Ethernet</li> <li>Read K&amp;R Chapter 6.1 – 6.4, 6.7</li> <li>Link Layer</li> <li>Ethernet</li> <li>Read K&amp;R Chapter 6.1 – 6.4, 6.7</li> <li>Link Layer</li> <li>Ethernet Frame and Multiple Access</li> <li>Wireless networks</li> <li>Networking Mobility</li> <li>Network security</li> <li>Cryptography</li> <li>Module 10 Summary Exercises</li> <li>Final 13 March – 17 March</li> <li>Final I3 March – 17 March</li> <li>Final Exam (covers weeks 6-10)</li> </ul>	•	•
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Module 9 Summary Exercises Lab #5 Project #4• Internet Protocol (Ipv6) Link Layer • Network interfaces • Multiple Access protocols • MAC addresses • Address Resolution Protocol (ARP) • Local Area Networks (LAN) • Ethernet#10: 08 March - 15 March Module 10 Summary Exercises Discussion: Modules 6-10, Video Demo #2 Discussion: Modules 6-10, Video Demo #2 Module 10 Summary Exercises Project #4Link Layer • Ethernet Frame and Multiple Access • Wireless networks • Networking Mobility Network security CryptographyFinal 13 March - 17 March Final 13 March - 17 MarchFinal Exam (covers weeks 6-10)		<b>Read</b> K&R Chapter 5.1 – 5.3, 5.6
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