

# CS 372 Introduction to Computer Networks

## Course Calendar\*      Winter 2019

\*NOTE: Weeks are shown Sunday through Sunday. Assignments are due the 2<sup>nd</sup> Sunday, unless otherwise noted.

\*NOTE: Subject to change based on material pace

**New Assignments in BLACK.    Due Assignments in RED**

Unit / Week	Topics
<p><b>#1:</b> 01/06 – 01/13</p> <p><b>Lab #1</b> is assigned</p> <p><b>Weekly Summary #1</b> assigned <b>Weekly Summary #1</b> due</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Basic concepts</li> <li><input type="checkbox"/> Networking metrics</li> <li><input type="checkbox"/> Network protocols</li> <li><input type="checkbox"/> Network edge/core</li> <li><input type="checkbox"/> Circuit-switching / Packet-switching</li> </ul> <p><b>Read</b> K&amp;R Chapter 1.1 – 1.4</p>
<p><b>#2:</b> 01/13 – 01/20</p> <p><b>Lab #1</b> is due</p> <p><b>Weekly Summary #2</b> assigned <b>Weekly Summary #2</b> due</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Physical media</li> <li><input type="checkbox"/> Layering models</li> <li><input type="checkbox"/> Security issues</li> <li><input type="checkbox"/> Application layer</li> </ul> <p><b>Read</b> K&amp;R Chapter 1.5 – 1.8, 2.1</p>
<p><b>#3:</b> 01/20 – 01/27</p> <p><b>Lab #2</b> is assigned</p> <p><b>Quiz #1</b></p> <p><b>Weekly Summary #3</b> assigned <b>Weekly Summary #3</b> due</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Application layer protocols <ul style="list-style-type: none"> <li>○ Hypertext Transfer Protocol (HTTP)</li> <li>○ File Transfer Protocol (FTP)</li> <li>○ Mail (SMTP, POP3, IMAP)</li> <li>○ Domain Name Services (DNS) <ul style="list-style-type: none"> <li>▪ Network byte order</li> </ul> </li> </ul> </li> </ul> <p><b>Read</b> K&amp;R Chapter 2.2 – 2.4, 2.7 (2.6 optional)</p>
<p><b>#4:</b> 01/27 – 02/03</p> <p><b>Program #1</b> is assigned</p> <p><b>Lab #2</b> is due</p> <p><b>Weekly Summary #4</b> assigned <b>Weekly Summary #4</b> due</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Transport Layer</li> <li><input type="checkbox"/> Socket programming</li> <li><input type="checkbox"/> Multiplexing/Demultiplexing</li> <li><input type="checkbox"/> Connectionless transport</li> <li><input type="checkbox"/> Connection-oriented transport</li> <li><input type="checkbox"/> User Datagram Protocol (UDP)</li> <li><input type="checkbox"/> Reliable Data Transfer</li> </ul> <p><b>Read</b> K&amp;R Chapter 3.1 – 3.3</p>
<p><b>#5:</b> 02/03 – 02/10</p> <p><b>Lab #3</b> is assigned</p> <p><b>Program #1</b> is due</p> <p><b>Weekly Summary #5</b> assigned <b>Weekly Summary #5</b> due</p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Reliable Data Transfer</li> <li><input type="checkbox"/> Transmission Control Protocol (TCP)</li> <li><input type="checkbox"/> Flow control</li> </ul> <p><b>Read</b> K&amp;R Chapter 3.4 – 3.5</p>

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<p>#6: 02/10 – 02/17</p> <p><b>Lab #3 is due</b></p> <p><b>Midterm Exam</b></p> <p>Weekly Summary #6 assigned  <b>Weekly Summary #6 due</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Congestion control</li> <li><input type="checkbox"/> Fairness</li> <li><input type="checkbox"/> Network layer</li> </ul> <p><b>Read K&amp;R Chapter 3.6 – 3.8</b></p> <p style="text-align: center;"><b>Midterm Exam</b>  <b>(Available Thursday – Sunday only)</b></p>
<p>#7: 02/17 – 02/24</p> <p><b>Lab #4 is assigned</b></p> <p><b>Program #2 is assigned</b></p> <p>Weekly Summary #7 assigned  <b>Weekly Summary #7 due</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Virtual circuits</li> <li><input type="checkbox"/> Internet protocols</li> <li><input type="checkbox"/> Datagram routing</li> <li><input type="checkbox"/> Internet Protocol (IPv4)</li> <li><input type="checkbox"/> Classless Inter-Domain Routing (CIDR)</li> <li><input type="checkbox"/> Dynamic Host Configuration Protocol (DHCP)</li> </ul> <p><b>Read K&amp;R Chapter 4.1 – 4.3</b></p>
<p>#8: 02/24 – 03/03</p> <p><b>Quiz #2</b></p> <p><b>Lab #4 is due</b></p> <p>Weekly Summary #8 assigned  <b>Weekly Summary #8 due</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Routing algorithms</li> <li><input type="checkbox"/> Fragmentation</li> <li><input type="checkbox"/> Internet Control Message Protocol (ICMP)</li> <li><input type="checkbox"/> Network Address Translation (NAT, NAPT)</li> </ul> <p><b>Read K&amp;R Chapter 5.1 – 5.3, 5.6</b></p>
<p>#9: 03/03 – 03/10</p> <p><b>Lab #5 is assigned</b></p> <p><b>Program #2 is due</b></p> <p>Weekly Summary #9 assigned  <b>Weekly Summary #9 due</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Internet Protocol (IPv6)</li> <li><input type="checkbox"/> Link Layer</li> <li><input type="checkbox"/> Network interfaces</li> <li><input type="checkbox"/> Multiple Access protocols</li> <li><input type="checkbox"/> MAC addresses</li> <li><input type="checkbox"/> Address Resolution Protocol (ARP)</li> <li><input type="checkbox"/> Local Area Networks (LAN) <ul style="list-style-type: none"> <li><input type="checkbox"/> Ethernet</li> </ul> </li> </ul> <p><b>Read K&amp;R Chapter 6.1 – 6.4, 6.7</b></p>
<p>#10: 03/10 – 03/17</p> <p><b>Lab #5 is due</b></p> <p>Weekly Summary #10 assigned  <b>Weekly Summary #10 due</b></p>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Wireless networks</li> <li><input type="checkbox"/> Network security</li> </ul> <p><b>Read K&amp;R Chapter 7.1 – 7.3, 8.1 – 8.3</b></p>
<p>#11: 03/17 - 03/20</p> <p>Finals Week</p>	<p style="text-align: center;"><b>Final Exam</b>  <b>(Available Sunday – Wednesday only)</b></p>