

# CS 372 Introduction to Computer Networks

## Course Calendar\* Fall 2018

\*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
<b>#1:</b> 09/23 – 09/30  <b>Lab #1</b> is assigned  <b>Weekly Summary #1</b> assigned <b>Weekly Summary #1</b> due	<ul style="list-style-type: none"> <li>• Basic concepts</li> <li>• Networking metrics</li> <li>• Network protocols</li> <li>• Network edge/core</li> <li>• Circuit-switching / Packet-switching</li> </ul> <b>Read K&amp;R Chapter 1.1 – 1.4</b>
<b>#2:</b> 09/30 – 10/07  <b>Lab #1</b> is due  <b>Weekly Summary #2</b> assigned <b>Weekly Summary #2</b> due	<ul style="list-style-type: none"> <li>• Physical media</li> <li>• Layering models</li> <li>• Security issues</li> <li>• Application layer</li> </ul> <b>Read K&amp;R Chapter 1.5 – 1.8, 2.1</b>
<b>#3:</b> 10/07 – 10/14  <b>Lab #2</b> is assigned  <b>Weekly Summary #3</b> assigned <b>Weekly Summary #3</b> due	<ul style="list-style-type: none"> <li>• 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> <b>Read K&amp;R Chapter 2.2 – 2.4, 2.7 (2.6 optional)</b>
<b>#4:</b> 10/14 – 10/21  <b>Lab #2</b> is due  <b>Weekly Summary #4</b> assigned <b>Weekly Summary #4</b> due	<ul style="list-style-type: none"> <li>• Transport Layer</li> <li>• Socket programming</li> <li>• Multiplexing/Demultiplexing</li> <li>• Connectionless transport</li> <li>• Connection-oriented transport</li> <li>• User Datagram Protocol (UDP)</li> <li>• Reliable Data Transfer</li> </ul> <b>Read K&amp;R Chapter 3.1 – 3.3</b>
<b>#5:</b> 10/21 – 10/28  <b>Lab #3</b> is assigned  <b>Weekly Summary #5</b> assigned <b>Weekly Summary #5</b> due	<ul style="list-style-type: none"> <li>• Reliable Data Transfer</li> <li>• Transmission Control Protocol (TCP)</li> <li>• Flow control</li> </ul> <b>Read K&amp;R Chapter 3.4 – 3.5</b>

**CS 372 Introduction to Computer Networks**  
**Course Calendar\* Fall 2018**

<p><b>#6:</b> 10/28 – 11/04</p> <p><b>Lab #3</b> is due</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>• Congestion control</li> <li>• Fairness</li> <li>• 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 (Monday in class)</b></p>
<p><b>#7:</b> 11/04 – 11/11</p> <p><b>Lab #4</b> is assigned</p> <p>Weekly Summary #7 assigned  <b>Weekly Summary #7 due</b></p>	<ul style="list-style-type: none"> <li>• Virtual circuits</li> <li>• Internet protocols</li> <li>• Datagram routing</li> <li>• Internet Protocol (IPv4)</li> <li>• Classless Inter-Domain Routing (CIDR)</li> <li>• Dynamic Host Configuration Protocol (DHCP)</li> </ul> <p><b>Read K&amp;R Chapter 4.1 – 4.3</b></p>
<p><b>#8:</b> 11/11 – 11/18</p> <p><b>Lab #4</b> is due</p> <p>Weekly Summary #8 assigned  <b>Weekly Summary #8 due</b></p>	<ul style="list-style-type: none"> <li>• Routing algorithms</li> <li>• Fragmentation</li> <li>• Internet Control Message Protocol (ICMP)</li> <li>• Network Address Translation (NAT, NAPT)</li> </ul> <p><b>Read K&amp;R Chapter 5.1 – 5.3, 5.6</b></p>
<p><b>#9:</b> 11/18 – 11/25</p> <p><b>Lab #5</b> is assigned</p> <p>Weekly Summary #9 assigned  <b>Weekly Summary #9 due</b></p>	<ul style="list-style-type: none"> <li>• Internet Protocol (IPv6)</li> <li>• Link Layer</li> <li>• Network interfaces</li> <li>• Multiple Access protocols</li> <li>• MAC addresses</li> <li>• Address Resolution Protocol (ARP)</li> <li>• Local Area Networks (LAN) <ul style="list-style-type: none"> <li>◦ Ethernet</li> </ul> </li> </ul> <p><b>Read K&amp;R Chapter 6.1 – 6.4, 6.7</b></p>
<p><b>#10:</b> 11/25 – 12/02</p> <p><b>Lab #5</b> is due</p> <p>Weekly Summary #10 assigned  <b>Weekly Summary #10 due</b></p>	<ul style="list-style-type: none"> <li>• Wireless networks</li> <li>• Network security</li> </ul> <p><b>Read K&amp;R Chapter 7.1 – 7.3, 8.1 – 8.3</b></p>
<p><b>#11:</b> 12/02 - 12/05</p> <p>Finals Week</p>	<p style="text-align: center;"><b>Final Exam (Thursday 12:00-1:50pm)</b></p>