

**CDS-130– Computing for Scientists**  
**Fall 2021 term - Class Summary Schedule**

<b>Week</b>	<b>Topics Covered</b>	<b>Assignments (Includes YTEs)</b>	<b>Quizzes / Exams</b>
<b>Week #1</b> (Aug 23-28)	<ul style="list-style-type: none"> <li>• What is Ethics</li> <li>• The MATLAB Environment</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Check (Week 0)</li> <li>• Blog (<i>Initial</i>)</li> <li>• Weekly Assignment (WA01)</li> </ul>	Extra Credit Quiz #1
<b>Week #2</b> (Aug 29 - Sep 4)	<ul style="list-style-type: none"> <li>• Number systems (Bases)</li> <li>• Beginning MATLAB Programming, syntax, and variables</li> </ul>	<ul style="list-style-type: none"> <li>• Blog (<i>Update</i>)</li> <li>• Mid-week Exercise (MWE02) &amp; WA02</li> </ul>	Ethics Quiz #1
<b>Week #3</b> (Sep 5-11)	<ul style="list-style-type: none"> <li>• MASON Honor Code</li> <li>• MATLAB comments, vectors, and plots</li> <li>• Converting numbers between bases</li> </ul>	<ul style="list-style-type: none"> <li>• Honor Code Cert Quiz &amp; Pledge</li> <li>• MWE03 &amp; WA03</li> </ul>	Ethics Quiz #2
<b>Week #4</b> (Sep 12-18)	<ul style="list-style-type: none"> <li>• Cheating – what do you do?</li> <li>• MATLAB vectors (<i>con't</i>) and FOR Loops</li> </ul>	<ul style="list-style-type: none"> <li>• Ethics Discussion</li> <li>• Password Assignment</li> <li>• MWE04 &amp; WA04</li> </ul>	Extra Credit Quiz #2
<b>Week #5</b> (Sep 19-25)	<ul style="list-style-type: none"> <li>• Password Security Strategies</li> <li>• Basics of Logic</li> </ul>	<ul style="list-style-type: none"> <li>• Ethics Discussion</li> <li>• MWE05 &amp; WA05</li> </ul>	<b>Stage #1 Exam</b>
<b>Week #6</b> (Sep 26 – Oct 2)	<ul style="list-style-type: none"> <li>• Digital Footprint</li> <li>• Introduction to modeling</li> </ul>	<ul style="list-style-type: none"> <li>• Digital Footprint Assignment</li> <li>• MWE06 &amp; WA06</li> </ul>	--
<b>Week #7</b> (Oct 3 – Oct 9)	<ul style="list-style-type: none"> <li>• Using &amp; misusing statistics</li> <li>• Integer division</li> </ul>	<ul style="list-style-type: none"> <li>• MWE07 &amp; WA07</li> </ul>	--
<b>Week #8</b> (Oct 10-16)	<ul style="list-style-type: none"> <li>• Basic probability</li> <li>• MATLAB random numbers</li> </ul>	<ul style="list-style-type: none"> <li>• MWE08 &amp; WA08</li> </ul>	Ethics Quiz #3
<b>Week #9</b> (Oct 17-23)	<ul style="list-style-type: none"> <li>• Phishing prevention</li> <li>• Probability modeling</li> </ul>	<ul style="list-style-type: none"> <li>• Ethics Discussion</li> <li>• MWE09 &amp; WA09</li> </ul>	--
<b>Week #10</b> (Oct 24-30)	<ul style="list-style-type: none"> <li>• Electronic criminal crimes</li> <li>• MATLAB arrays and nested FOR loops</li> </ul>	<ul style="list-style-type: none"> <li>• MWE10 &amp; WA10</li> </ul>	<b>Stage #2 Exam</b>
<b>Week #11</b> (Oct 31 – Nov 6)	<ul style="list-style-type: none"> <li>• Ethical behavior</li> <li>• MATLAB colors and image processing</li> <li>• MATLAB number formatting</li> </ul>	<ul style="list-style-type: none"> <li>• Ethics Discussion</li> <li>• MWE11 &amp; WA11</li> </ul>	Extra Credit Quiz #3
<b>Week #12</b> (Nov 7-13)	<ul style="list-style-type: none"> <li>• MATLAB image processing (<i>con't</i>)</li> </ul>	<ul style="list-style-type: none"> <li>• Ethics Discussion</li> <li>• MWE12 &amp; WA12</li> </ul>	--
<b>Week #13</b> (Nov 14-20)	<ul style="list-style-type: none"> <li>• Ethical Behavior</li> <li>• Cheating</li> <li>• MATLAB Algorithms and WHILE loops</li> </ul>	<ul style="list-style-type: none"> <li>• Ethics Discussion</li> <li>• MWE13 &amp; WA13 &amp; Bonus-HW</li> </ul>	Extra Credit Quiz #4
<b>Week #14</b> (Nov 28 – Dec 4)	<ul style="list-style-type: none"> <li>• Ethical Responsibility</li> <li>• MATLAB integration</li> </ul>	<ul style="list-style-type: none"> <li>• MWE14</li> <li>• WA14</li> </ul>	Ethics Quiz #4 Extra Credit Quiz #5
<b>Week #15</b> (Dec 5-11)	<b>Final Exam!</b>	--	<b>Final Exam</b>