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

Week	Topics Covered	Assignments *(Includes YTEs)*	Quizzes / Exams
Week #1 (Aug 23-28)	• What is Ethics • The MATLAB Environment	• Computer Check (Week 0) • Blog (*Initial*) • Weekly Assignment (WA01)	Extra Credit Quiz #1
Week #2 (Aug 29 - Sep 4)	• Number systems (Bases) • Beginning MATLAB Programming, syntax, and variables	• Blog (*Update*) • Mid-week Exercise (MWE02) & WA02	Ethics Quiz #1
Week #3 (Sep 5-11)	• MASON Honor Code • MATLAB comments, vectors, and plots • Converting numbers between bases	• Honor Code Cert Quiz & Pledge • MWE03 & WA03	Ethics Quiz #2
Week #4 (Sep 12-18)	• Cheating – what do you do? • MATLAB vectors (*con't*) and FOR Loops	• Ethics Discussion • Password Assignment • MWE04 & WA04	Extra Credit Quiz #2
Week #5 (Sep 19-25)	• Password Security Strategies • Basics of Logic	• Ethics Discussion • MWE05 & WA05	**Stage #1 Exam**
Week #6 (Sep 26 – Oct 2)	• Digital Footprint • Introduction to modeling	• Digital Footprint Assignment • MWE06 & WA06	--
Week #7 (Oct 3 – Oct 9)	• Using & misusing statistics • Integer division	• MWE07 & WA07	--
Week #8 (Oct 10-16)	• Basic probability • MATLAB random numbers	• MWE08 & WA08	Ethics Quiz #3
Week #9 (Oct 17-23)	• Phishing prevention • Probability modeling	• Ethics Discussion • MWE09 & WA09	--
Week #10 (Oct 24-30)	• Electronic criminal crimes • MATLAB arrays and nested FOR loops	• MWE10 & WA10	**Stage #2 Exam**
Week #11 (Oct 31 – Nov 6)	• Ethical behavior • MATLAB colors and image processing • MATLAB number formatting	• Ethics Discussion • MWE11 & WA11	Extra Credit Quiz #3
Week #12 (Nov 7-13)	• MATLAB image processing (*con't*)	• Ethics Discussion • MWE12 & WA12	--
Week #13 (Nov 14-20)	• Ethical Behavior • Cheating • MATLAB Algorithms and WHILE loops	• Ethics Discussion • MWE13 & WA13 & Bonus-HW	Extra Credit Quiz #4
Week #14 (Nov 28 – Dec 4)	• Ethical Responsibility • MATLAB integration	• MWE14 • WA14	Ethics Quiz #4 Extra Credit Quiz #5
Week #15 (Dec 5-11)	**Final Exam!**	--	**Final Exam**