

MSE 510 Course Syllabus Spring, 2019

#	DATE	TOPIC	HOMEWORK
1	1/10/2019	Algebraic Equations - Linear	HW 1 Assign
2	1/15/2019	Algebraic Equations - Linear	
3	1/17/2019	Algebraic Equations - Transformations	
4	1/22/2019	Algebraic Equations - Non-Linear, Single	
8	1/24/2019	Algebraic Equations - Non-Linear, Single	HW 1 Due; HW 2 Assign
9	1/29/2019	Algebraic Equations - Non-Linear, Systems	
10	1/31/2019	Numerical Differentiation	
11	2/5/2019	ODES - Linear, Single, Analytical	
12	2/7/2019	ODES - Linear, System, Analytical	HW 2 Due; HW 3 Assign
13	2/12/2019	ODES - Non-Linear, Single	
14	2/14/2019	ODES - Non-Linear, Systems	
15	2/19/2019	ODES - Boundary Value Problems	
16	2/21/2019	ODES - Stability Analysis	HW 3 Due;
17	2/26/2019	Midterm Examination	
18	2/28/2019	PDEs - Introduction	HW 4 Assign
19	3/5/2019	PDEs - Linear, Single, Parabolic	Project Assign
20	3/7/2019	PDEs - Non-Linear, Single, Parabolic	
21	3/12/2019	PDEs - Non-Linear, Systems, Parabolic	
22	3/14/2019	PDEs - Non-Linear, Single, Hyperbolic & Elliptic	HW 4 Due
23	3/19/2019	Spring Break - No Class	
24	3/21/2019	Spring Break - No Class	
25	3/26/2019	Numerical Integration	HW 5 Assign
26	3/28/2019	Fourier Transforms	
27	4/2/2019	Fourier Transforms	
28	4/4/2019	Optimization - Linear	
29	4/9/2019	Optimization - Nonlinear	HW 5 Due; HW 6 Assign
30	4/11/2019	Optimization - Nonlinear	
31	4/16/2019	IEs - Linear, Single, Analytical	
32	4/18/2019	IEs - NonLinear, Single	
33	4/23/2019	Systems of Mixed Equations	HW 6 Due
34	4/25/2019	Systems of Mixed Equations	Project Due
35	Final Exam	2:45 p.m. – 4:45 p.m. Monday, May 6	