

	Math 20580 schedule	Spring 2020
January 15	Lay 1.1–1.2: Systems, row reduction	
17	1.3 Vector equations	
20	No math 20580 class	
22	1.4 The matrix equation	
24	1.5 Solution sets	
27	1.7 Linear independence	
29	1.8–1.9: Linear transformations	
31	2.1–2.2: Matrix operations and inverses	
February 3	2.3 Characterizations of invertible matrices	
5	2.8 Subspaces	
7	2.9 Dimension and rank	
10	3.1: Determinants	
12	3.2: More on Determinants	
<b>February 13</b>	<b>Exam I: 8:00–9:15 a.m., covers material from Lay 1.1–2.9 inclusive</b>	
14	3.3 Cramer’s Rule	
17	4.1–4.2: Vector spaces and subspaces, null spaces and column spaces	
19	4.3 Linear independence and bases	
21	4.4 Coordinates	
24	4.5 Dimension of vector space	
26	4.6–4.7: Rank and changes of bases	
28	5.1–2: Eigenvalues and characteristic equations	
March 2	5.3 Diagonalization	
4	5.4 Eigenvectors	
<b>March 5</b>	<b>Exam II: 8:00–9:15 a.m., covers material Lay 3.1–5.2 inclusive</b>	
6	5.5 Complex eigenvalues	
<b>March 7–15</b>	<b>Spring Break</b>	
16	Classes cancelled	
18	Classes cancelled	
20	Classes cancelled	
23	6.1-6.2: Inner product and orthogonality	
25	6.3 Orthogonal projections	
27	6.4 The Gram-Schmidt process	
30	6.5 The least squares method	
April 1	Boyce & DiPrima 1.1-1.2: Solutions to Diff Equations, direction fields	
3	1.3 Classification of differential equations	
6	2.1-2.2: Integrating factors, separable equations	
8	2.3 Modeling	
<b>April 10–13</b>	<b>Easter holiday</b>	
15	Review and leeway	
<b>April 16</b>	<b>Exam III, covers material Lay 5.3–B&amp;D 2.2 inclusive</b>	
17	2.4 Linear and non-linear equations	
20	2.5 Autonomous equations	
22	2.6 Exact equations and integrating factors	
24	3.1 Homogeneous equations with constant coefficients	
27	3.2 Linear homogeneous equations; Wronskian	
29	3.3 Complex roots	
	Final Reading: 3.4–3.6	
<b>May 7</b>	<b>Final Exam, covers material Lay 1.1–B&amp;D 3.3 inclusive</b>	