	Math 20580 schedule	Spring 2019
January 16	Lay 1.1–1.2 System, row reduction	
18	1.3 Vector equations	
21	No math 20580 class.	
23	1.4 The matrix equation	
25	1.5 Solution sets	
28	1.7 Linear independence	
30	All Math 20580 classes cancelled	
February 1	1.8–1.9 Linear transformations	
4	2.1–2.2 Matrix operations and inverses	
6	2.3 Characterizations of invertible matrice	s
8	2.8 Subspaces	
11	2.9 Dimension and rank	
13	3.1 Determinants	
February 14	Exam I: 8:00–9:15 a.m., covers mater	rial from Lay 1.1–2.9 inclusive
15	3.2 More on Determinants	
18	3.3 Cramers Rule	
20	4.1–4.2 Vector spaces and subspaces, null	spaces and column spaces
22	4.3 Linear independence and bases	
25	4.4 Coordinates	
27	4.5 Dimension of vector space	
March 1	4.6–4.7 Rank and changes of bases	
4	5.1–2 Eigenvalues and characteristic equat	ions
6	5.3 Diagonalization	
March 7	Exam II: 8:00–9:15 a.m., covers mate	erial from Lay 3.1–5.2 inclusive
8	5.4 Eigenvectors	
March 9–17	Spring Break	
18	5.5 Complex eigenvalues	
20	6.1-6.2: Inner product and orthogonality	
22	6.3 Orthogonal projections	
25	6.4 The Gram-Schmidt process	
27	6.5 The least squares method	
29	Boyce & DiPrima 1.1-1.2 Solutions to Diff	Equations, direction fields.
April 1	1.3 Classifications of equations	
3	2.1-2.2 Integrating factors, separable equa	tions.
5	2.3 Modeling	
8	2.4 Linear and non-linear equations	
10	2.5 Autonomous equations	
12	2.6 Exact equations and integrating factor	S
15	3.1 Homogeneous equations with constant	coefficients
17	3.2 Linear homogeneous equations; Wrons	kian
April 18	Exam III: 8:00–9:15 a.m., covers mat	terial Lay 5.3–B&D 3.1 inclusive
April 19–April 22	Easter holiday	
24	3.3 Complex roots	
26	3.4 Repeated roots	
29	3.5 Undetermined coefficients	
May 1	3.6 Variation of parameters	
	Final Reading: 3.7-3.8 Vibrations	
May 8	Final Exam 1:45–3:45 p.m., covers al	l material except B&D 3.7–3.8