

San Jose State University
 Spring 2010
 MATH129A Linear Algebra I, section 2
 CALENDAR

Date	Topic	Section Covered
Jan 27 (W)	<i>introduction</i>	
Feb 1 (M)	linear systems, reduction method	1.1 - 1.2
Feb 3 (W)	vector equation, matrix equation	1.3 - 1.4
Feb 8 (M)	solution sets	1.5
Feb 10 (W)	linear independence	1.7
Feb 15 (M)	furlough	
Feb 17 (W)	matrix transformation <i>project 1 due</i>	1.8
Feb 22 (M)	linear transformation	1.9
Feb 24 (W)	subspaces of \mathbf{R}^n	2.8
Mar 1 (M)	dimension and rank	2.9
Mar 3 (W)	<i>test 1</i>	1.1–1.5, 1.7–1.9, & 2.8–2.9
Mar 8 (M)	matrix operations	2.1
Mar 10 (W)	inverse of a matrix	2.2
Mar 15 (M)	characterization of invertible matrices	2.3
Mar 17 (W)	determinant	3.1
Mar 22 (M)	properties of determinant	3.2 - 3.3
Mar 24 (W)	eigen theory	5.1 - 5.2
Mar 29 (M)	spring break	
Mar 31 (W)	spring break	
Apr 5 (M)	diagonalization, complex eigenvalues <i>project 2 due</i>	5.3 & 5.5
Apr 7 (W)	discrete dynamical system	5.6
Apr 12 (M)	<i>test 2</i>	2.1–2.3, 3.1–3.3, 5.1–5.3, & 5.5
Apr 14 (W)	inner product, orthogonality	6.1
Apr 19 (M)	orthogonal sets	6.2
Apr 21 (W)	orthogonal projections	6.3
Apr 26 (M)	Gram-Schmidt process	6.4
Apr 28 (W)	least-squares problems	6.5
May 3 (M)	symmetric matrices <i>project 3 due</i>	7.1
May 5 (W)	singular value decomposition	7.4
May 10 (M)	application of SVD	7.4
May 12 (W)	<i>test 3</i>	6.1–6.5, 7.1, & 7.4
May 17 (M)	<i>review</i>	
May 24 (Mon)	<i>final</i>	comprehensive