21-241: Matrix Algebra – Summer I, 2006 Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
$Week \ 1$	5/22	5/23	5/24	5/25	5/26
	1.1 Solution of Linear Systems	1.3 Gaussian Elimination	1.4 Pivoting and Permutations	1.5 Matrix Inverse	1.6 Transposes and
	1.2 Matrices and Vectors				Symmetric Matrices
					1.9 Determinants
23	5/29	5/30	5/31	6/1	6/2
Weel	Memorial Day	1.8 General Linear Systems	Exam 1 Review	Exam 1	2.1 Real Vector Spaces
		Homework 1 due			2.2 Subspaces
3	6/5	6/6	6/7	6/8	6/9
Week	2.3 Span & Linear Independence	2.5 The Fundamental	3.1 Inner Products	3.3 Norms	3.5 Completing the square
	2.4 Base and Dimension	Matrix Subspaces	3.2 Inequalities	3.4 Positive Definite Matrices	
	Homework 2 due				
4	6/12	6/13	6/14	6/15	6/16
Week	Exam 2 Review	Exam 2	4.1 Minimization Problems	5.1 Orthogonal Bases	5.3 Orthogonal Matrices
	Homework 3 due		4.2 Minimization of Quadratic Functions	5.2 The Gram-Schmidt Process	3
5	6/19	6/20	6/21	6/22	6/23
Week	5.5 Orthogonal Projections	5.6 Orthogonal Subspaces	Exam 3 Review	Exam 3	8.1 Simple Dynamical System
	and Least Squares				8.2 Eigenvalues and
	Homework 4 due				Eigenvectors
θ	6/26	6/27	6/28	6/29	6/30
Week	8.3 Eigenvector Bases	8.4 Eigenvalues of	8.5 Singular Values	Final Exam Review	Final Exam
	and Diagonalization	Symmetric Matrices			Homework 6 due
	Homework 5 due				