Date	Section	Exams (all in Testing Center)
5-Sep	1.1 Vector Algebra	
7-Sep	1.2 Spans and Linear Combinations	
10-Sep	1.3 Products, Sums, and Complements	
12-Sep	1.4 Dimension, Replacement, and Extension	
14-Sep	1.5 Quotient Spaces	
17-Sep	2.1 Basics of Linear Transformations I	
19-Sep	2.2 Basics of Linear Transformations II	
21-Sep	2.3 Rank, Nullity, and the First Isomorphism Theorem	
24-Sep	2.4 Matrix Representations	
26-Sep	2.5 Composition, Change of Basis, and Similarity	
28-Sep	2.6 Important Example: Bernstein Polynomials	
1-Oct	2.7 Linear Systems	
3-Oct	2.8 Determinants I	
5-Oct	2.9 Determinants II	
8-Oct	Review	Exam 1 Oct 9 (Tues) - Oct 12 (Fri)
10-Oct	3.1 Introduction to Inner Products	
12-Oct	3.2 Orthonormal sets and Orthogonal Projections	
15-Oct	3.3 Gram-Schmidt Orthonormalizations	
17-Oct	3.4 QR and Householder Transformations	
19-Oct	3.5 Normed Linear Spaces	
22-Oct	3.6 Important Norm Inequalities	
24-Oct	3.7 Adjoints	
26-Oct	3.8 Fundamental Subspaces of a Linear Transformation	
29-Oct	3.9 Least Squares	
31-Oct	4.1 Eigenvalues and Eigenvectors	
2-Nov	4.2 Invariant Subspaces	
5-Nov	4.3 Diagonalization	
7-Nov	4.4 Schur's Lemma	
9-Nov	Review	Exam 2 Nov 9 (Fri)- Nov 13 (Tues)
12-Nov	4.5 The Singular Value Decomposition	
14-Nov	4.6 Consequences of SVD	
16-Nov	5.1 Metric Spaces and Continuous Functions	
19-Nov	5.2 Continuous Functions and Limits	
20-Nov	5.3 Closed Sets, Sequences, and Convergence	
26-Nov	5.4 Completeness and Uniform Continuity	
28-Nov	5.5 Compactness	
30-Nov	5.6 Uniform Convergence and Banach Spaces	
3-Dec	5.7 The Continuous Linear Extension Theorem	
5-Dec	5.8 Topologically Equivalent Metrics	
7-Dec	5.9 Topological Properties	
10-Dec	5.10 Banach-Valued Integration	
12-Dec	Review	Final Exam Dec 15 (Sat) - Dec 19 (Wed)