MTH288 - Linear Algebra Fall 2016

Monday	Wednesday	Friday
8/29/16	8/31/16	9/2/16
1.1 What Are Vectors? **1.2 What Are Linear Functions?** **1.3 What is a Matrix?**	**2.1 Gaussian Elimination**	**2.1 Gaussian Elimination**
9/5/16	9/7/16	9/9/16
Labor Day	**2.3 Elementary Row Operations**	**2.5 Solution Sets for Systems of Linear Equations**
9/12/16	9/14/16	9/16/16
4.1 Addition and Scalar Multiplication in R^n **4.2 Hyperplanes**	**Computer Lab Practice with Linear System Solutions**	**4.3 Directions and Magnitudes** **5.1 Examples of Vector Spaces**
9/19/16	9/21/16	9/23/16
6.1 The Consequence of Linearity **6.2 Linear Functions on Hyperplanes**	**6.3 Linear Differential Operators** **6.4 Bases (Take1)**	**7.1 Linear Transformations and Matrices**
9/26/16	9/28/16	9/30/16
7.3 Properties of Matrices	**7.3 Properties of Matrices**	**7.5 Inverse Matrix**
10/3/16	10/5/16	10/7/16
8.1 The Determinant Formula	**8.2 Elementary Matrices and Determinants**	**8.4 Properties of the Determinant**
10/10/16	10/12/16	10/14/16
Review for Test 1	**Test 1**	**9.1 Subspaces** **9.2 Building Subspaces**
10/17/16	10/19/16	10/21/16
10.1 Showing Linear Dependence **10.2 Showing Linear Independence**	**10.3 From Dependent to Independent**	**11.1 Bases in Rn** **11.2 Matrix of a Linear Transformation (Redux)**

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Monday	Wednesday	Friday
10/24/16	10/26/16	10/28/16
12.1 Invariant Directions **12.2 The Eigenvalue–Eigenvector Equation**	**12.3 Eigenspaces**	**13.1 Diagonalizability** **13.2 Change of Basis**
10/31/16	11/2/16	11/4/16
13.3 Changing to a Basis of Eigenvectors	**13.3 Changing to a Basis of Eigenvectors**	**14.1 Properties of the Standard Basis**
11/7/16	11/9/16	11/11/16
14.2 Orthogonal and Orthonormal Bases	**14.3 Relating Orthonormal Bases**	**Veterans Day**
11/14/16	11/16/16	11/18/16
15.1 Diagonalizing Symmetric Matrices	**16.1 Range**	**16.2 Image**
11/21/16	11/23/16	11/25/16
16.3 Summary	**17.1 Projection Matrices**	**Thanksgiving Recess**
11/28/16	11/30/16	12/2/16
Review for Test 2	**Test 2**	**17.2 Singular Value Decomposition**
12/5/16	12/7/16	12/9/16
17.2 Singular Value Decomposition	**17.2 Singular Value Decomposition**	**Review for Final**