

<b>Math 227 2017-2018 Spring Syllabus</b>		
<b>Date</b>	<b>Topic</b>	<b>Chapter/Section</b>
29- Jan.- 2 Feb.	Systems of linear equations.	1.1
5-9 Feb.	Gaussian elimination.	1.2
12-16 Feb.	Matrix inversion, Matrix operations.	1.3 -1.4
19-23 Feb.	Computing matrix inverses Elementary matrices, Return to solving linear systems.	1.5-1.6
26 Feb.- 2 Mar.	Some special matrices. Leontief Input-Output Models.	1.7,1.9 <b>HMW 1</b>
5-9 Mar.	Determinants, Minors and cofactors.	2.1-2.2 <b>Midterm 1</b> <b>March 7 ??</b>
12-16 Mar.	Computing determinants.Cramer's rule.	2.2-2.3
19-23 Mar.	Euclidean space, Geometry of Euclidean space.	3.1-3.4
26-30 Mar.	Real vector spaces, subspaces.	4.1-4.2
2-6 Apr.	Linear Independence, Coordinates and Bases.	4.3-4.4
9-13 Apr.	Dimension, Change of Basis	4.5-4.6 <b>HMW 2</b>
16-20 Apr.	Kernels, Row and Column spaces, Rank-nullity theorem.	4.7-4.8 <b>Midterm 2</b> <b>April 18??</b>
23-27 Apr.	Eigenvectors and eigenvalues.	5.1
30 Apr.– 4 May	Diagonalization of matrices.	5.2
7-14 May	Inner product spaces, Gram-Schmidt orthogonalization.	6.1-6.3

**Midterm 1 ( 25 %)**

**Midterm 2 ( 25 %)**

**Final Exam ( 30 %)**

**Homework (8 %) : The homework must be submitted by 17:00 of the due date.**

**Quizzes (12%): There will be at least 6 quizzes.**

**FZ grade :** Your Mdt1 + Mdt2 > 50 ( out of 200 ) to take the final exam.Otherwise your grade will be FZ.

