

LINEAR ALGEBRA WITH APPLICATIONS: Math 5331
COURSE CONTENT

WARNING: The beginning topics are easier than the later ones. You should try to progress quickly at the beginning.

- Block on Matrices; Chapters 1 – 4:
 - Preliminaries
 - Solving Linear Equations
 - Matrices and Linearity
 - Determinants and Eigenvalues

- **MID-TERM EXAMINATION:**
Thursday, June 18, PGH 646, Time: to be announced

- Vector Spaces
- Linear Maps and Changes of Coordinates
- Orthogonality
- Block on Normal Forms:
 - Similar Matrices
 - Matrix Normal Forms

- **FINAL EXAMINATION:**
Thursday, July 2, Time: to be announced

GRADING POLICY

<i>Homework</i>	20%
<i>Midterm Examination</i>	35%
<i>Final Examination</i>	45%