MATH 1107C, Linear Algebra I

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1 Textbooks

- Linear Algebra and its Applications, Fifth Edition, David C. Lay, Steven R. Lay, and Judi J. McDonald. Copies are available in the university bookstore.
- Any linear algebra book should be helpful too. There might be some differences though.

2 Topics to be covered

Systems of linear equations, matrix algebra, determinants, invertible matrix theorem, Cramer's rule. Vector space \mathbb{R}^n , subspaces, bases. Eigenvalues, diagonalization. Linear transformations, kernel, range. Complex numbers (including De Moivre's theorem). Inner product spaces and orthogonality. Applications.

3 Evaluation Scheme

•	• The best two of three tests:	2×2	0% =	= 40%
•	Tutorial work:			. 10%
•	Final:			.50%

4 Lecture and office hours & locations

 \bullet TBA