

Math 110
Linear algebra
FALL 2008

Instructor: Shamgar Gurevich, 867 Evans Hall, Phone: 643-7543.

Time and Location: MWF 3pm-4pm, Room 4 Evans.

Office Hours: W 4-5pm, F 4-5pm.

Textbook: S. Friedberg, A. Insel, and L. Spence, Linear Algebra, Prentice Hall, 2002. *Recommended Reading:* You may find the following textbook helpful as supplementary reading (optional): Lectures on Linear Algebra by I.M. Gelfand.

Syllabus: We will study basics of linear algebra: Fields, vector spaces, bases and dimension, linear transformations, matrices, dual spaces, determinants, diagonalization, simultaneous diagonalization, inner product spaces, canonical forms.

Grading: There will be weekly homework assignments which will be due in one week, a project, two midterm exams and a final. They will count toward the grade as follows:

Home work	25%
Project	10%
Midterm I	15%
Midterm II	15%
Final	35%

Attitude: In our course we will study the basics of linear algebra which is one of the most important subjects of mathematics. The attitude will be to help you to develop your way on how to think about some mathematical objects that appears in the formulations and solutions of various problems. Moreover, I expect you to be an integral part of the course. i.e., to attend lectures, to submit homeworks, to do a project, to write tests, and to visit me during my office hours.

Good Luck!