

Mathematics 129A
Fall 2005

Instructor: Professor R. Alperin, Duncan 239, Email: alperin@math.sjsu.edu,
Office hours: Mon 1-2:30, 4-5:30 PM; Wed 12:30-2:30 PM or by appointment, Phone:
924-5066

Text: *Elementary Linear Algebra with Applications* by R. C. Alperin, available
on-line <http://www.math.sjsu.edu/~alperin>

Course: Linear Algebra

The main goal of this class is to introduce the students to ideas of linear algebra and its applications, methods of proof in mathematics, and use of computer packages.

Final grade based on 400 point total on tests, and (computer) homework projects. The two mid-terms will count 100 points each. The final will be comprehensive and worth 150 points.

The computer projects are to be done in groups with 2-4 students each, three is the optimal size of a group. You are responsible for finding other students to work with in your group. Registration in Math 110 is required for a computer account and admission to the computer labs; register for Math 110 and sign up for your computer account in the Math office. Each project will count 10 points. The project will involve using MAPLE, a computer linear algebra system, as an aid in solving problems. *No late projects will be accepted.*

Chapter 1: August 24-September 12 (Project 1 due 9/19)

Chapter 2: September 14 - October 5 (Project 2 due 10/17)

MIDTERM 1: October 10

Chapter 3: October 12 - November 2 (Project 3 due 11/2)

Chapter 4: November 7 - November 21 (Project 4 due 11/28)

MIDTERM 2: November 21

Chapter 5: November 23 (no class) - December 7 (Project 5 due 12/7)

FINAL EXAM - December 14 5:15, 7:45