Mathematics 2406
Abstract Vector Spaces
Spring 2001
A. D. Andrew

1. **General Information.** This information sheet, as well as assignments and other course information, is posted at www.math.gatech.edu/~andrew.

This course meets from 12:05 - 1:25 on Tuesdays and Thursdays.

My office is 164 Skiles and my office phone is 404-894-2719. My e-mail address is andrew@math.gatech.edu. Office hours are Monday and Wednesday 10:30 - 11:30, Tuesday 1:30 - 2:30, or by appointment.

2. **Text and Material.** This course is designed for mathematics majors, and has two main purposes. The first is to provide a thorough and rigorous treatment of linear algebra. The second is to provide a transition between the calculational introductory mathematics courses and the advanced and more theoretical courses by giving students an introduction to methods and strategies of proof. The text for this course is *Linear Algebra, a first course with applications to differential equations,* by Tom M. Apostol. We will cover most of chapters 2 through 7 and some applications from chapters 8 and 9, and additional material on matrix factorizations.

3. **Homework.** Homework will be assigned, and will be due approximately every other week on Thursday. For each assignment there will be a "homework team" whose job is to write a solution set which will be posted on the web and to answer questions on the assignment in class. Each team will explain its solutions to me two days before the due date. I will grade a subset of each assignment.

4. **Tests.** There will be three tests and a final exam. Tentative dates for the tests are

Test 1	Thursday 8 February
Test 2	Thursday 15 March
Test 3	Thursday 19 April

I try to discourage make-up exams, but please let me know beforehand if you must miss a test for a valid reason. Please let me know of any conflicts **immediately**.

5. **Grading.** The tests, homework, and final examination will be counted with the following weights.

Hour Tests	55%
Homework	10%
Final Examination	35%

While letter grades will be based on a secret and mysterious formula, I will keep you informed of how your are doing.

6. **Honor Code**. Please review the Georgia Tech Honor Code. All examinations in this course are closed book. No notes may be used. You may discuss homework with eachother, but I expect you to write your solutions yourself. The work you ultimately submit must be your own. Naturally, I expect the "homework teams" to work together and produce only one set of solutions.