

MATH 1522 SYLLABUS

SPRING 2005

Course Number: Math 1522 E

Course Name: Linear Algebra for Calculus

Lecture Time: MWF 12:05–12:55 p.m.

Lecture Room: Skiles 146

Instructor: Dr. Christopher Heil
Office: Skiles 260
Office Phone: (404) 894-9231
Email Address: heil@math.gatech.edu

Office Hours: WF 3:30-4:30 p.m., and by appointment

Web site: <http://www.math.gatech.edu/~heil>

Contacting me: I encourage you to contact me at any time by email. I try to check email daily and to respond to questions quickly. Please don't be afraid to set up other appointment times if you are having trouble getting in touch with me.

Textbook: *Elementary Linear Algebra: A Matrix Approach*
by Spence, Insel, and Friedberg

Material: Matrices, Vectors, and Systems of Linear Equations (Chapter 1)
Matrices and Linear Transformations (Chapter 2)
Determinants (Chapter 3)
Subspaces and Their Properties (Chapter 4)
Eigenvalues, Eigenvectors, and Diagonalization (chapter 5)
Orthogonality (Chapter 6)

Comments. This course is a “bridge course” that covers the linear algebra portion of the material that is usually presented in MATH 1502 (Calculus II).

Academic Dishonesty. All students are expected to comply with the Georgia Tech Honor Code. Any evidence of cheating or other violations of the Georgia Tech Honor Code will be submitted directly to the Dean of Students. The institute honor code is available at <http://www.deanofstudents.gatech.edu/Honor>

Grading. We will have five homework assignments, three in-class exams, and a final exam.

5 Homeworks	10 points each
Exam 1	40 points
Exam 2	40 points
Exam 3	40 points
<u>Final Exam</u>	<u>80 points</u>
TOTAL	250 points

Letter grades will be based on your accumulated points at the end of the quarter, according to 90%, 80%, 70%, 60% cutoffs (although I may adjust the cutoffs downward at the end of the quarter, depending on class distribution):

225–250	A
200–224	B
175–199	C
150–174	D
0–149	F

At the end of the course, I'll evaluate the class distribution and decide if a curve is needed. I'll only curve *down* from the above cutoffs, not up.

Midterm Grades. You will receive a midterm grade of S (satisfactory) or U (unsatisfactory). This just gives you some idea of where you stand in the course. The midterm grade is just for your benefit, it has no impact on your final grade.

Homework. Homeworks will consist of problems selected from the book or problems that I make up. Assignments will be posted on the course web site. A subset of the problems will be selected for grading.

Homeworks must be NEATLY written on the FRONT SIDE of the page only, and must be STAPLED. You must SHOW WORK neatly and completely in order to receive credit. Homeworks are due at the BEGINNING of class on the announced due date, and late homeworks will not be accepted.

You are allowed to work together with other students on the homework, as long as you each INDEPENDENTLY WRITE UP YOUR OWN SOLUTIONS. You are also allowed (and encouraged) to ask me questions, although you should try to think about the problems before asking. I strongly encourage you to work extra problems from the book on your own and will post a list of recommended problems on the course website.

Exams. The exams test UNDERSTANDING as well as problem solution skills. The tentative dates for the exams are:

Exam 1	Friday, February 11 (in class)
Exam 2	Friday, March 11 (in class)
Exam 3	Friday, April 8 (in class)
Final Exam	Thursday, May 5, 8:00 a.m.–10:50 a.m.

The exams are closed-book and closed-notes, except that you will be allowed to bring one 8.5x11 sheet of notes to each exam. The final is comprehensive.

Makeup exams are given only in extraordinary circumstances.