

## MATH 1502 SYLLABUS (Revised)

SPRING 2005

- Course Number: Math 1502 C3, C4, C5
- Course Name: Calculus II
- Lecture Time: MWF 10:05–10:55 a.m.
- Lecture Room: Ford Environmental Science and Technology Building, Room L1255
- Professor: Dr. Christopher Heil  
Office: Skiles 260  
Office Phone: (404) 894-9231  
Email Address: [heil@math.gatech.edu](mailto: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.
- Recitation Time: TuTh 10:05 a.m.–10:55 a.m.
- TAs and Room: C3: A. Cakmak, Skiles 254  
C4: K. Chen, Skiles 202  
C5: L. Snyder, Skiles 169
- Textbook 1: *Calculus*, by Salas, Hille, and Etgen
- Material: L'Hopital's Rule and Improper Integrals (Sections 10.5–10.7)  
Infinite Series (Sections 11.1–11.4)  
Taylor Polynomials and Taylor Approximation (Sections 11.5–11.6)  
Power Series (Sections 11.7–11.8)  
Numerical Integration (Sections 8.7–8.9)
- Textbook 2: *Elementary Linear Algebra* 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)

**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 four homework assignments, three in-class exams, a quiz, and a final exam.

4 Homeworks	10 points each
Quiz 1	20 points (10 points + 10 bonus points)
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	Thursday, February 10 (in class)
Exam 2	Thursday, March 10 (in class)
Exam 3	Thursday, April 7 (in class)
Final Exam	Friday, May 6, 2:50 p.m.–5:40 p.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.