Course Number: Math 1522 C
Course Name: Linear Algebra for Calculus
Lecture Time: MWF 10:05–10:55 a.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: MWF 1:00-2:00, and by appointment
Web site: http://www.math.gatech.edu/~heil
Contacting me: I encourage you to contact me 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/integrity/policies/honor_code.php

Attendance. Because the lectures amplify and supplement the text, REGULAR attendance is
expected. For best understanding, read the section(s) to be covered in the text before attending
the lecture. Check the list of recommended homework problems on the class website to see which
text sections are upcoming. In the event of an absence, you are responsible for everything that is
covered in the lecture.
Grading. We will have three in-class exams, some shorter quizzes, and a final exam.

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<tbody>
<tr>
<td>5 Quizzes</td>
<td>15 points each, lowest quiz dropped</td>
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<tr>
<td>Exam 1</td>
<td>50 points</td>
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<tr>
<td>Exam 2</td>
<td>50 points</td>
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<tr>
<td>Exam 3</td>
<td>50 points</td>
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<tr>
<td>Final Exam</td>
<td>90 points</td>
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<tr>
<td>TOTAL</td>
<td>300 points</td>
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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):

- 270–300: A
- 240–269: B
- 210–239: C
- 180–209: D
- 0–179: 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.

Quizzes and Exams. Quizzes will last 20 minutes at the end of class, while exams will take the full 50 minute class period. The TENTATIVE dates for the quizzes and exams are:

- Quiz 1: Friday, September 2
- Exam 1: Friday, September 9
- Quiz 2: Friday, September 23
- Exam 2: Friday, October 7
- Quiz 3: Friday, October 21
- Exam 3: Friday, November 11
- Quiz 4: Friday, November 18
- Quiz 5: Friday, December 2
- Final Exam: Thursday, December 15, 8:00 a.m.–10:50 a.m.

The quizzes and exams are closed-book and closed-notes, except that you will be allowed to bring one 8.5x11 sheet of notes to each quiz or exam. I strongly encourage you to work many problems from the book on your own in order to prepare for the exams. I will post a list of recommended problems on the course website. The final is comprehensive.

Makeup exams are given only in extraordinary circumstances.