Math 1553 Syllabus,  
Sections G1–G4  
MWF 13:05 – 13:55 PM,  
Clough Underg 152

Instructor: Zaher Hani, (Office: Skiles 224), Email: zhani6@gatech.edu, Office hours: Monday and Wednesday 2:30pm–3:20pm. Website: [http://www.math.gatech.edu/zhani6](http://www.math.gatech.edu/zhani6).

Course Coordinates: MWF 13:05 – 13:55 PM, Clough Underg 152. [Click here](http://www.math.gatech.edu/zhani6) for a searchable map.

Recitation Sections: The course has four sections G1, G2, G3, G4. All recitation sections are held on Friday from 13:05-13:55pm. Each section will be administered by its own teaching assistant (TA). Make sure you know the section in which you are registered.

1. Section G1 will meet in Skiles 256 and is administered by Madelyn Juby (mjuby3@gatech.edu).
2. Section G2 is held in Skiles 254 and is administered by Celeste Runnels (crunnels3@gatech.edu).
3. Section G3 is held in Skiles 255 and is administered by Elta Clarke (eclarke30@gatech.edu).
4. Section G4 is held in Skiles 270 and is administered by Hyunki Min (hmin38@gatech.edu).

Teaching assistants: In addition to administering recitation sessions, your teaching assistant will also hold office hours and will be your first help line with course problems.

1. Section G1 TA: Madelyn Juby (mjuby3@gatech.edu) (Office: Skiles 230) Office hours: Tuesday 12:00-1:00pm.
2. Section G2 TA: Celeste Runnels (crunnels3@gatech.edu) (Office: Skiles 230) Office hours: Friday 3:00–4:00pm.
3. Section G3 TA: Elta Clarke (eclarke30@gatech.edu) (Office: Skiles 230) Office hours: Tuesday 3:00-4:00pm.
4. Section G4 TA: Hyunki Min (hmin38@gatech.edu) (Office: Skiles 149) Office hours: Friday 4:00 –5:00pm.

Important Websites

1. Course Information/Announcements/Grades: [t-square](http://www.math.gatech.edu/zhani6) (required).
2. Textbook/Homework Access, MyMathLab: [MyMathLab](http://www.math.gatech.edu/zhani6) (required)
**Textbook:** The textbook for this course is provided through your MyMathLab access. It’s called Linear Algebra and its Applications by David Lay.

We will cover various topics in Lay from chapters 1, 2, 3, 5, and 6. Please see the following section for more information on MyMathLab.

**MyMathLab Course Information:** We will be utilizing MyMathLab (MML) for homework through a joint code for the Thomas Calculus text and the Lay Linear Algebra text. In order to register, you will need our course id listed below

**MyMathLab Course ID: hani34859**

Important notes on MML:

- If you already have a MyMathLab account that used either the Thomas or Lay textbook in the past 18 months, but you were unable to add our course using the previous step, please send an email to gatechmath@yahoo.com and include the following information:
  - Your First and Last Name
  - The email address used to register for MML
  - Your Login ID for MML
  - Our course ID (listed above) for Spring 2016

You should receive a reply in 48-72 hours from the Pearson support team regarding your account status. In the meantime, you can access our course using the temporary access option when registering. Please do not pay for a new code until you receive a reply from Pearson.

- If you do not have a MyMathLab account using the Thomas or Lay textbooks, or if your account is over 18 months old, you will need to purchase a new code for our course. Please refer to the registration document, located in the Resources section on t-square, to create your new account.

**When signing up for MyMathLab, it will be immensely helpful to me (for grading purposes) if you will set your Student ID to your USERID for the GT system (i.e., your T-square USERID, as in gburdell3, etc).**

MyMathLab comes with an entire electronic version of the textbook; it is your choice if you would also like to own the textbook in print. You may purchase a MyMathLab code either from the bookstore or on-line while registering at http://www.mymathlab.com. If you prefer to own a hardcopy of the text, the bookstore offers packages of MyMathLab combined with a loose-leaf or hardcover version of the Thomas textbook that is less expensive than purchasing the text and code separately.

**PLEASE NOTE:** GEORGIA TECH HAS A SPECIAL CODE PACKAGE THAT INCLUDES BOTH TEXTBOOKS. THIS CODE CAN ONLY BE PURCHASED THROUGH THE CAMPUSS BOOKSTORES OR DIRECTLY FROM PEARSON. CODES PURCHASED BY OTHER VENDORS WILL NOT WORK!
**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.honor.gatech.edu/

**Learning Objectives.**

- Students will learn the fundamentals of linear algebra, including topics/techniques such as: writing systems of equations in matrix form; transforming matrices into echelon form; vectors and vector spaces; matrix equations and their solutions; matrix operations such as inverting, factoring, finding determinants, finding eigenvalues and eigenvectors, and diagonalization; and orthogonal projections and least-squares.

- Students will show knowledge of the above linear algebra concepts/techniques both graphically and algebraically.

**Course Organization.** This course will generally consist of two 50 minute lectures and one 50 minute recitation section per week, at the times listed above. During lectures, we will go over the course material as found in the textbook, work examples, and answer your (hopefully) many questions. During recitation, you will spend time working on problems individually or in groups, going over problems with the TA, taking quizzes, and further discussing course material. You will also take exams in recitation section. Attendance is required at all scheduled class times.

**Grading.** There grade is based on (roughly) bi-weekly quizzes, weekly online homework, three midterms, and a final exam. The grade breakdown is as follows:

- (20%) Bi-weekly Quizzes and Homework weighed equally.

- (50%) 3 Midterm Exams. *I will substitute your grade on the final exam for your lowest midterm score, if it helps improve your grade.*

- (30%) Final Exam.

The exam grades may be curved. I will only curve to adjust your grade upwards, never downwards. All issues about the grading of exams and quizzes much be brought up to the instructor or TAs within 48 hours of receiving the graded test.

**Midterm Progress Report.** 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 and Quizzes.** Learning mathematics is a hands-on activity. In my experience, students who do not put effort into the homework assignments almost always fail the course. The right way to approach the homework is as preparation for exams. As you do the homework problems ask yourself, “Will I be able to solve a similar problem on the exam?” This includes being able to do the problems quickly under time pressure.
A roughly bi-weekly, 15 to 25-minute, quiz will be administered in recitation. There will be no quizzes on the weeks of the midterms. The quizzes are meant to check if you are staying on track in learning the current material.

Out of fairness to your classmates, late homework won’t be accepted and no individual exceptions will be made (unless justified). The two lowest homework grade will be dropped.

Exams. All exams and quizzes are closed book. You are not allowed to use calculators (mainly because you do not need it!), and all electronic devices must be turned off during the exam. It is your responsibility to make sure that you are able to take the exams at the regularly scheduled time. Midterm exams are administered in recitation. Final exam date is

Dec 12, 2016 (2:50-5:40pm),

so please plan your travel accordingly. Out-of-sequence and make-up exams are not allowed apart from very exceptional cases such as:

1. A well-documented medical excuse.
2. Extreme hardship such as a well-documented family emergency.
3. Travel representing Georgia Tech, such as an intercollegiate sports competition. In this case, you must notify the professor at least two weeks in advance to arrange an early test or other alternative. Otherwise, such absences will be treated as personal.

In particular, we will not be able to accommodate out-of-sequence exams, quizzes, and finals for purposes of more convenient travel, including already purchased tickets. If you miss 1 midterm, your grade on the final will be substituted for that score.

Important Dates

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<tr>
<th>Date</th>
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<tr>
<td>August 22</td>
<td>First day of classes</td>
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<tr>
<td>September 23</td>
<td>Midterm 1</td>
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<tr>
<td>October 21</td>
<td>Midterm 2</td>
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<td>October 29</td>
<td>Last day to drop or withdraw with a grade of “W”</td>
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<tr>
<td>November 11</td>
<td>Midterm 3</td>
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<tr>
<td>Dec 12 (Mon)</td>
<td>Final Exam (2:50-5:40pm)</td>
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