

Common Syllabus

MATH 1554 - Spring 2021

Although the MATH 1554 instructors strive to supply accurate information, items on the syllabus are subject to change. Any changes to the syllabus will be relayed to the students in lecture and through Canvas.

1. Course Goals, Objectives, and Topics

The primary goal of Math 1554 is to prepare students to succeed in upper level courses that require this course as a pre-requisite. To this end we will:

- Explore fundamental concepts of linear algebra from a mathematical perspective.
- Discuss study strategies during lecture and studio to help prepare students for exams.

Preparing students for more advanced courses means that we will not provide written solutions to studio worksheets and some midterm review material. In this course, we help students transition to more advanced courses by encouraging them to ask questions Piazza, during office hours, and checking their work with their peers. All of these strategies are valuable methods that are transferable to higher-level courses.

Learning objectives articulate what students are expected to do in a course. The learning objectives for this course are as follows.

1. Construct, or give examples of, mathematical expressions that involve vectors, matrices, and linear systems of linear equations. For example: construct an invertible matrix with four columns that is not diagonalizable.
2. Evaluate mathematical expressions to compute quantities that deal with linear systems and eigenvalue problems. Examples: compute the singular value decomposition of a given matrix, or construct the LU decomposition of a rectangular matrix.
3. Analyze mathematical statements and expressions. For example: assess whether a given statement is accurate, or describe solutions of systems in terms of existence and uniqueness.
4. Write logical progressions of abstract mathematical arguments. For example, to explain why a square matrix with linearly independent columns is invertible.
5. Apply linear algebra concepts to model, solve, and analyze real-world situations.
6. Identify course-related information, policies, and procedures that are contained in the syllabus and related course websites.

Topics indicate what material is covered in a course. Some of the topics explored in this course are:

- Methods for solving systems of linear equations, such as row reduction and matrix decompositions such as the LU and SVD decompositions.
- Geometry of linear transformations.
- Characterizations of invertible matrices and determinants.
- Eigenvalue and eigenvectors, and their uses.
- The structure of a linear transformations, including decompositions, such as LU, spectral or singular value decompositions.
- Orthogonal projections and their application to determine best-fit solutions to over-determined systems of linear equations.

2. Textbook and Course Websites

Textbook: Lay, Linear Algebra and its Applications, 5th Edition. Older editions of Lay are basically OK, although to complete the online homework you will need to purchase access to MyMathLab, which comes with the 5th edition.

Textbook and Homework: www.mymathlab.com

Course Website: canvas.gatech.edu

Master Website: <https://gatech.instructure.com/courses/114544>

3. Expectations

3.1 Students

Students are expected to attend lectures and studios, complete all assignments in a timely and professional manner, study the subject matter outside of class time, review this syllabus, review their graded work in a timely manner for potential marking errors and to review where mistakes were made (if any), and ask for help when needed. A few suggestions on how to succeed in this class include:

- read and reread the textbook and think about what you have read. Our textbook is not chatty.
- It is best to read the corresponding portion of the book right before it is covered in class.
- Do all homework!
- Attend lectures and studios; while some rare individuals can do well without going to class, there is a strong evidence that those who attend most lectures and studios get a better grade.
- Join/form a study group: explaining ideas to others helps clarify them for yourself, not to mention that your peers may have something to teach you too, and most importantly to tell you when you are wrong.
- Always go to review sessions.
- Do not hesitate to ask questions (in class and on Piazza), come to instructor and/or TA office hours etc.

3.2 Teaching Assistants (TAs)

TAs are responsible for facilitating learning activities during studio, holding office hours, marking, and responding to questions from students via email and during office hours and studio.

3.3 Instructor

Instructors provide learning objectives that define what students are expected to be able to learn, facilitate interactive lectures, coordinate with teaching assistants to grade student work and facilitate learning activities, provide students with assessments that both develop and measure your understanding and knowledge of the subject matter, provide feedback on your performance, provide solutions to midterms, and be available for assistance when requested.

4. Announcements

Students are responsible for obtaining announcements and materials placed on the course website (Canvas). Please join our class page on Piazza so you can view/participate in course-related discussions.

5. Preparing for Midterms and the Final Exam

Practice materials and additional office hours will be offered prior to midterms and the final exam. Depending on your goals, you may need to complete

additional work beyond MML homework, worksheets, and practice midterms to adequately prepare for them.

6. Grades

Final grades are calculated using the following grade weighting. Unless otherwise stated all assessments with the exception of MyMathLab assignments are equally weighted with others of the same type - e.g., all Quizzes are weighted the same, and all Exploration assignments are weighted the same.

| | |
|--------------------|-----|
| Exploration/Matlab | 10% |
| MML Homework | 15% |
| Quizzes | 15% |
| Best Midterm | 20% |
| Middle Midterm | 15% |
| Worst Midterm | 10% |
| Final Exam | 15% |

Georgia Tech only distributes letter grades. Numerical grades are converted to letter grades based on the standard intervals:

A: [90%, 100%], B: [80%, 90%), C: [70%, 80%), D: [60%, 70%), F: [0%, 60%).

Students can not expect any changes to these intervals and any changes made to them could only be made after the final exam is held. Percentage grades are not rounded to the nearest integer before conversion to letter grades. For example, 89.99999% is converted to a B, and 79.99999% is converted to a C, and so on.

6.1 Grade Curves

Quiz, midterm and final exam grades will not be curved. Boundaries between letter grades may be lowered. But the extent to which they could be can only be determined after all final exams has been graded.

6.2 CIOS Incentive

Please take a few moments towards the end of the semester to complete the CIOS survey. The School of Math is currently discussing how we might better coordinate Math 1554, how to better support our students, teaching assistants, and instructors, as well as a range of other items related to this course. CIOS survey results have informed many improvements to this course in recent years, and your results will help the School of Math decide how to allocate resources to this course and what directions we should take in the near future. Your instructors also use CIOS data to help improve their teaching from course to course.

To help encourage students to complete the CIOS survey, if the completion rate is above 80% for an entire class by Wednesday, May 5 at 11pm, then the lowest quiz will be dropped.

Please do not ask for updates on the CIOS completion rate on Piazza: students should be using Piazza at that point in the semester to prepare for final exams.

More information about the CIOS is available

at: www.academic effectiveness.gatech.edu/resources/cios (Links to an external site.).

7. Exploration, Homework, Midterms, Final Exam Policies

7.1 Exploration

The purpose of exploration activities is to help students gain a deeper understanding of course concepts, come to class more prepared, offer feedback to the instructors on student understanding and course activities, and help students become more aware of their level of understanding of course material.

Explorations are open note, open book, you can use any online calculator or MATLAB, and you can talk about explorations with each other or your instructor - ask for clarification or hints on Piazza; however, your work on the exploration must be entirely your own.

Students using sources without citation, copied without attribution and submitted on an Exploration assignment are subject to disciplinary action (with the exception of online calculators, or MATLAB).

If you are caught inappropriately using Chegg, Reddit, or plagiarizing any source or other student's work you will be referred to the Dean of Students for academic misconduct (See the section 11.2 Academic Integrity for more details) - you will get a zero for the assignment and also forfeit any class bonus (e.g., +2.1 quiz bonus for additional explorations, any dropped quizzes for the CIOS bonus, or any other class bonus from the semester) in the case of academic dishonesty or inappropriate use of Chegg. You can get **ideas** from other people, including Chegg or online resources, and get help figuring out what you are supposed to do, but **what you submit** must be your own ideas and work.

There will be 14 graded 3-pt exploration assignments for a total possible 42pt accumulated exploration points, but a max score for exploration is capped at 21pt - so you only need to accumulate a total of 21pt over any number of attempted exploration assignments. Any additional points you get on exploration assignments after the 21pt cap add +0.1pt to your overall quiz grade - so you can add up to 2.1pt to your overall quiz grade if you get 100% on all fourteen exploration assignments. Details about completing the Explorations and the weekly instructions can be found on the coordinator's website: <http://people.math.gatech.edu/~sbarone7/ma1554s21.html> (Links to an [external site.](#)) last link under Course Documents (updated by Tuesday every week). Explorations are due by Friday at midnight in Gradescope, no late work submitted for any reason, no exceptions.

7.2 Homework

Homework are assigned on-line and consist of exercises on MyMathLab (MML). You are expected to understand all homework problems before all midterms and the exam. In order to increase the effectiveness of lectures, you should attempt MML problems before lectures. There may be MML homework due the final week of class. There is a 20% PER DAY penalty for late homework. MML homework is generally due before the topics in them are covered in studio. This is intentional: it helps prepare students for studio activities.

Each student gets individual problems, that is, the numbers differ but the problems are similar. In MyMathLab homework you have unlimited number of attempts but the problem will change to a similar one after 3 attempts (click in similar exercises to get another problem). Thus nothing stops you from getting 100% on each MyMathLab homework. MyMathLab will not always accept unsimplified answers, namely $\frac{4}{6}$ is not always as good as $\frac{2}{3}$. Read the fine print when submitting answers in MyMathLab to avoid having to submit more than once to get a perfect score.

7.3 Midterms and Quizzes

Quizzes are unproctored, 20 minutes, typically will be 10pts, are taken in Gradescope within a 24-hour window on the dates listed at the end of the syllabus, and cover the sections listed below. Quizzes are open notes, open book, and you can use online calculators, handheld calculators, or MATLAB. However, you may NOT use Chegg or Reddit, Piazza, or any other discussion board and may

not work with other people. Do not share information about the quiz with anyone until everyone has taken the quiz - check Piazza for when it is ok to talk about the quiz/exam. Your work must be entirely your own and you should have no prior knowledge about the quiz before taking it. Instances of academic misconduct are **always** referred to the dean of students for handling (See the section 11.2 Academic Integrity for more details). You can use your own study material or preferred calculation tool, but you must work on the quiz alone.

- Quiz 1: Focuses on sections 1.1, 1.2, and 1.3. Every question on this quiz will require an understanding of the material from these sections.
- Quiz 2: Focuses on sections 2.2, 2.3, 2.4, 2.5, 2.6, and 2.7. Every question on this quiz will require an understanding of the material from these sections.
- Quiz 3: Focuses on sections 5.1, 5.2, 5.3, 5.5, and the section on Google PageRank. Every question on this quiz will require an understanding of the material from these sections.
- Quiz 4: Focuses on sections 7.1, 7.2, 7.3, and 7.4. Every question on this quiz will require an understanding of the material from these sections.

On **Wednesdays at 8pm** we will have 50-minute midterms in Gradescope. Dates are on the course schedule. Midterms cover the following sections.

- Midterm 1: Covers all sections that were covered in lecture, up to and including Section 2.1

- Midterm 2: Covers all sections that were covered in lecture, up to and including Section 5.2
- Midterm 3: Covers all sections that were covered in lecture, up to and including Section 6.6

The list of which sections are covered in lecture is on the last page of the syllabus. In this class we do not cover sections 1.6, 1.10, 4.1 to 4.8, 5.4, 5.6, 5.7, 5.8 and 7.5. Students are not expected to be familiar with the material in these sections.

Students will have sample midterms and quizzes to help them prepare for them, and see how quizzes and midterms are structured, and to practice using the Canvas online interface for submitting quizzes and exams.

Procedures for the midterms are as follows.

- All midterms will be administered **synchronously at 8pm on the Wednesday dates in the schedule at the end of the syllabus.**
- All midterms and the final exam are proctored using the Honorlock proctoring tool in Canvas, as well as "Live" by your TA in your online studio room.
- No notes, textbook, calculators, or phones are allowed.
- Students may have something to write with and an eraser as well as at most four pieces blank paper for scratch work. Students must show the blank paper at the beginning of the proctoring session.

- Water is allowed.
- Bathroom breaks are not allowed, unless it is an emergency or you have a medical condition that makes it necessary. Please try to take care of this before the assessment, whenever possible.
- Other electronic devices, websites, outside help, calculators, and cellphones are strictly prohibited. Any student suspected of violating this policy will be referred to the Dean of Students for immediate disciplinary action including receiving a zero on the quiz or exam where the violation occurred.
- Answers are entered into the Gradescope online assessment tool in a variety of formats: short answer, true/false, possible/impossible, select all that apply, or file upload.
- Students are expected to complete the exam in one session.
- Students are allowed only one attempt.
- Students will be permitted to review their quiz/exam and the correct answers after everyone has taken the quiz/exam, and after any make-up quiz/exams have been administered.
- Quiz and Exam scores are **automatically released** one week after the scheduled date. *Please do not ask when grades will be released.*
- Students who are unable to take any midterms or the final exam for any reason are responsible for notifying their instructor prior to the exam and as soon as possible.

7.4 Digital Proctoring with Honorlock

This course will use digital proctoring for all exams. The following are required of students: Please refer to these important Honorlock technical requirements:

- Students must have a broadband internet connection
- Students must have a webcam and microphone (to check IDs)
- Students must have a secure private location to take an exam
- Students will be asked to provide a picture ID and take a picture of themselves via a webcam as part of the exam process
- Honorlock is not compatible with Linux OS, Virtual Machines, tablets, or smartphones
- Honorlock requires the installation of Google Chrome and the Honorlock Chrome extension

If your current situation does not allow for Honorlock proctoring, please contact your instructor as soon as possible to discuss alternate proctoring arrangements.

To get started, you will need Google Chrome and to download the Honorlock Chrome Extension. You can download the extension

at www.honorlock.com/extension/install

When you are ready to test, log into Canvas, go to your course, and click on your exam. Clicking "Launch Proctoring" will begin the Honorlock authentication process, where you will take a picture of yourself, show your ID, and complete a scan of your room. Honorlock will be recording your exam session by webcam as well as recording your screen. Honorlock also has an integrity algorithm that can detect search-engine use, so please do not attempt to search for answers, even if it's on a secondary device.

7.5 Re-grade Requests

- If any of your work has been graded in error, you should use the grade correction request feature in Gradescope, go to the problem in the assignment that you want regraded and find the "Request Regrade" button.
- A re-grade request can only be submitted if you did something correct that was marked as incorrect.
- You must check your answers with the solutions before submitting such a request.
- Include in your re-grade request the following information: *why* do you feel your answer was graded incorrectly?

8. Illnesses, Emergencies, Absences

8.1 MML Homework

Students who encounter last-minute technical issues or other emergencies can request an extension from their instructor for MML homework via email.

Otherwise, there is a 20% **per day** late penalty for late homework.

8.2 Midterm Exams, Quizzes, Final Exam

Any student who misses a midterm exam or quiz, with reasonable explanation, might have an opportunity to take a make-up.

- Students who miss any midterm exam or quiz for any reason must notify their instructor as soon as they can to make necessary arrangements. If your reason for missing a midterm seems valid to your instructor, then it can be made up on the Tuesday after the quiz/midterm. To arrange for that you must contact your instructor as soon as possible. With rare exceptions acceptable reasons for missing an exam are limited to illness, family emergency, court appearance, and taking part in Georgia Tech events.
- Students who will miss a midterm, quiz, or final exam due to a university-sponsored event or athletics must provide their instructor with the official documentation in advance.
- Make-up quizzes and midterm exams **must be taken within one week** the midterm/quiz is scheduled. Dates and times of the make-up will be announced. Situations where it is not possible to take a make-up are handled on a case-by-case basis. The student might be given an EX (excused) grade in the Canvas Gradebook and the average of the remaining quizzes/midterms will be used for the corresponding portion of their final grade.

There will be no make-up final exams. Students who miss the final exam might qualify for an **incomplete**. Incompletes can only be assigned under specific circumstances that are defined on the Office of the Registrar's

website: <https://registrar.gatech.edu/info/incomplete-grades> (Links to an external site.)

9. After the Final Exam

9.1 The Final Exam

Please note the following procedures in regards to the final exam.

- The final exam will be administered online similar to the midterm exams.
- The final exam is usually not returned to students.
- Students are welcome to schedule an appointment with their instructor after final grades have been submitted to view their final exam.

9.2 Course Grades

Student final course grades will be posted on Canvas. Students can also check what their final course average is based on the grade weights in this syllabus with the listed quiz/exam/homework/exploration grades in Canvas.

Any changes made to final grades after the date final grades are submitted to the registrar must be made in accordance with GT Policies. See:

- <https://registrar.gatech.edu/info/grade-changes> (Links to an external site.)

- <https://registrar.gatech.edu/faculty-and-staff/grading-and-grade-entry> ([Links to an external site.](#))

The value of a Georgia Tech degree is in some measure determined by upholding reasonably rigorous grading procedures: please respect the grading policies set out in this syllabus and by Georgia Tech.

9.3 Piazza

Our Piazza forum will be closed a week or two after final grades are posted. You may contact your instructor by email after that date for anything related to the course.

Naming Guidelines for MATH 1554

Please use the following naming guidelines when creating a new post.

`[Name_of_Assignment] #[question_number] [question_summary]`

So for example, if you have a question about the second quiz, problem 4, and you don't know how to start the problem then your post should be named "Quiz 2 #4 How do you start it?".

If for example you have a question about problem 5.2.14 on a MyMathLab assignment, where you can't get the computer to accept your answer then you would name your post "MyMathLab 5.2.14 How to enter answer?".

Everyone needs to use the naming guidelines, sorry about that. Last semester it was really inefficient that many people would ask the same question over and over, so this semester we will all use the naming guidelines whenever you want to ask a question to avoid duplicate posts.

10. MyMathLab and Course Textbook

We will be utilizing MyMathLab (MML) for homework through a joint code for the Thomas *Calculus* text and the Lay *Linear Algebra* text. Our MML course is linked to Canvas. Please login to your Canvas account, then go to the "My Lab and Mastering" tool on the left-hand menu. From the My Lab page, you can login to, or create, your MyMathLab account to access our course. You should not need to enter a course ID.

Purchasing Your Code

- If you already have an account on MyMathLab using this combined textbook within the past 18 months, then you do not need to purchase a new code. Login to your account on Canvas, click the MyLab and Mastering tab on the left. You do not need a course ID.
- 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 Canvas, to create your new account.

When signing up for MyMathLab, it will be immensely helpful (for grading purposes) if you will set your STUDENT ID to your USERID for the GT system (i.e., your Canvas USERID, as in “gburdell3”, etc).

Textbook Hardcopies

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 MyMathLabcode either from the bookstore or on-line while registering at <http://www.mymathlab.com> (Links to an external site.). 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 CAMPUS BOOKSTORES OR DIRECTLY FROM PEARSON. CODES PURCHASED BY OTHER VENDORS WILL NOT WORK! Possible ISBNs for this text are: 9781323835029, 132383768X, or 9781323837689.

11. Class Policies and Statements

11.1 Email Etiquette

When sending email to your instructor or TA, please use your GT email account.

Please also indicate which class you are taking with your instructor (your instructors teach more than one course per semester), keep your email messages as succinct as possible, but give your instructor enough information as they need to process your request.

11.2 Academic Dishonesty

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards.

For information on Georgia Tech's Academic Honor Code, please

visit <http://osi.gatech.edu/content/honor-code> (Links to an external site.). Any student suspected of cheating or plagiarizing on any exam will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

Any evidence of cheating or other violations of the Georgia Tech Honor Code will be submitted directly to the Dean of Students, and results in a zero for the assignment and the forfeiture of any class bonus, such as the 2.1+ exploration quiz bonus, any dropped quizzes from a CIOS bonus, or other class bonuses from the semester. Cheating includes, but is not limited to the following.

- Using a calculator, cell phone, books, or any form of notes on quizzes/exams.
- Copying directly from **any** source during an exam, including friends, classmates, Reddit or another online forum, or a solutions manual.
- Allowing another person to copy your work, or posting your work to an online forum before grades are released/after everyone has taken the quiz/exam.
- Taking a test using someone else's name, or having someone else take a test in your name.
- Asking for a re-grade of a paper that has been altered from its original form.
- Using someone else's name to take tests for them, or asking someone else to use your identity for any graded or participation submission.

11.3 Students with Disabilities and/or in need of Special Accommodations

If you are a student with learning needs that require special accommodation, contact the Office of Disability Services at (404)894-2563 or <http://disabilityservices.gatech.edu> (Links to an external site.), as soon as possible, to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.

11.4 Student-Faculty Expectations Agreement

At Georgia Tech we believe that it is important to strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. See <http://www.catalog.gatech.edu/rules/22/> (Links to an external site.) for an articulation of some basic expectation that you can have of me and that I have of you. In the end, simple respect for knowledge, hard work, and cordial interactions will help build the environment we seek. Therefore, I encourage you to remain committed to the ideals of Georgia Tech while in this class.

11.5 Statement of Intent for Inclusivity

As a member of the Georgia Tech community, I am committed to creating a learning environment in which all of my students feel safe and included. Because we are individuals with varying needs, I am reliant on your feedback to achieve this goal. To that end, I invite you to enter into dialogue with me about the things I can stop, start, and continue doing to make my classroom an environment in which every student feels valued and can engage actively in our learning community.

11.6 Campus Resources for Students

In your time at Georgia Tech, you may find yourself in need of support. Below you will find some resources to support you both as a student and as a person.

Academic support

- Center for Academic Success <http://success.gatech.edu> (Links to an external site.)
 - 1-to-1 tutoring <http://success.gatech.edu/1-1-tutoring> (Links to an external site.)
 - Peer-Led Undergraduate Study
(PLUS) <http://success.gatech.edu/tutoring/plus> (Links to an external site.)
 - Academic coaching <http://success.gatech.edu/coaching> (Links to an external site.)
- Residence Life's Learning Assistance Program

<https://housing.gatech.edu/learning-assistance-program> (Links to an external site.)

- - Drop-in tutoring for many 1000 level courses
- OMED: Educational Services
(<http://omed.gatech.edu/programs/academic-support> (Links to an external site.))
 - Group study sessions and tutoring programs
- Communication Center
(<http://www.communicationcenter.gatech.edu> (Links to an external site.))

- Individualized help with writing and multimedia projects
- Academic advisors for your major <http://advising.gatech.edu/> ([Links to an external site.](#))

Personal Support

Georgia Tech Resources

- The Office of the Dean of Students: <http://studentlife.gatech.edu/content/services> ([Links to an external site.](#)); 404-894-6367; Smithgall Student Services Building 2nd floor
 - You also may request assistance at https://gatech-advocate.symplicity.com/care_report/index.php/pid383662? ([Links to an external site.](#))
- Counseling Center: <http://counseling.gatech.edu> ([Links to an external site.](#)); 404-894-2575; Smithgall Student Services Building 2nd floor
 - Services include short-term individual counseling, group counseling, couples counseling, testing and assessment, referral services, and crisis intervention. Their website also includes links to state and national resources.

- *Students in crisis may walk in during business hours (8am-5pm, Monday through Friday) or contact the counselor on call after hours at 404-894-2204.*
- Students' Temporary Assistance and Resources
 - (STAR): <http://studentlife.gatech.edu/content/need-help> (Links to an external site.)
 - Can assist with interview clothing, food, and housing needs.
- Stamps Health Services: <https://health.gatech.edu> (Links to an external site.); 404-894-1420
 - Primary care, pharmacy, women's health, psychiatry, immunization and allergy, health promotion, and nutrition
- OMED: Educational Services: <http://www.omed.gatech.edu> (Links to an external site.)
- Women's Resource Center: <http://www.womenscenter.gatech.edu> (Links to an external site.); 404-385-0230
- LGBTQIA Resource Center: <http://lgbtqia.gatech.edu/> (Links to an external site.); 404-385-2679
- Veteran's Resource Center: <http://veterans.gatech.edu/> (Links to an external site.); 404-385-2067
- Georgia Tech Police: 404-894-2500

| | | Mon | Tue | Wed | Thu | Fri |
|------|-------------|---------|---------------|---------------------|------------------------------|---------|
| Week | Dates | Lecture | Studio | Lecture | Studio | Lecture |
| 1 | 1/14 – 1/15 | | | | WS1.1 | 1.1 |
| 2 | 1/18 – 1/22 | Holiday | WS1.1 | 1.2 | Quiz 0 , WS1.2 | 1.3 |
| 3 | 1/25 – 1/29 | 1.4 | WS1.3,1.4 | 1.5 | Quiz 1 , WS1.5 | 1.7 |
| 4 | 2/1 – 2/5 | 1.8 | WS1.7,1.8 | 1.9 | WS1.9 | 2.1 |
| 5 | 2/8 – 2/12 | Review | WS2.1/Review | Exam 1 , 2.2 | Cancelled | 2.3,2.4 |
| 6 | 2/15 – 2/19 | 2.5 | WS2.2-2.5 | 2.6,2.7 | WS2.6-2.7 | 2.8 |
| 7 | 2/22 – 2/26 | 2.9 | WS2.8,2.9 | 3.1 | Quiz 2 , R2.2- 2.7 | 3.2 |
| 8 | 3/1 – 3/5 | 3.3 | WS3.1,3.2,3.3 | 4.9,5.1 | WS4.9,5.1 | 5.2 |
| 9 | 3/8 – 3/12 | Review | WS5.2/Review | Exam 2 , 5.3 | Cancelled | 5.5 |
| 10 | 3/15 – 3/19 | 5.5 | Break | PageRank | WS5.3,5.5, PageRank | 6.1 |
| 11 | 3/22 – 3/26 | 6.1,6.2 | WS6.1 | Break | Quiz 3 , WS6.2 | 6.3 |
| 12 | 3/29 – 4/2 | 6.4 | WS6.3,6.4,6.5 | 6.5 | WS6.5 | 6.6 |
| 13 | 4/5 – 4/9 | Review | WS6.6/Review | Exam 3 | Cancelled | 7.1 |
| 14 | 4/12 – 4/16 | 7.2 | WS7.1,7.2 | 7.3 | WS7.3 | 7.4 |

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|----|-------------|---|-----------|----------------|-------------------|--------|
| 15 | 4/19 – 4/23 | 7.4 | WS7.3,7.4 | 7.4 | Quiz 4, Review | Review |
| 16 | 4/26 – 4/30 | Review | Review | Reading Period | | |
| 17 | 5/3 – 5/6 | Final Exams: MATH 1554 Common Final Exam Tuesday, May 4th at 6pm | | | | |

12. Course Schedule and Studios

Our studio are run in the Hybrid format. The optional in-person component will be determined at a later date depending on the situation with COVID.

The following mandatory rules for attending an in person session are determined by Georgia Tech:

- Masks are mandatory. Any student not wearing a mask will be asked to put on a mask that will be provided, or will be asked to leave. If the student refuses to wear a mask or leave, then that in person studio will be immediately cancelled by the TA and everyone will be asked to leave.
- You must sign up ahead of time in order for a seating chart to be created, and you must sit in your assigned seat. You must not go to any other section other than your own. This is for contact tracing purposes in the event that a student or TA becomes sick.

- The in person reviews will be optional, and attendance will not be taken.
- At most 25% of the studio capacity can attend any particular review session. If more students want to attend a review session than there is room for, an extra review session on the previous studio day will be scheduled, if possible.
- All in person studio sessions will be streamed live and recorded for synchronous and asynchronous delivery.

Course Schedule

Cancellations due to inclement weather will likely result in cancelling review lectures and possibly moving through course material at a faster pace.

Chapter Titles

Chapters referred to in the schedule above are as follows.

- Chapter 1: Linear Equations in Linear Algebra
- Chapter 2: Matrix Algebra
- Chapter 3: Determinants
- Chapter 4: Vector Spaces
- Chapter 5: Eigenvalues and Eigenvectors

- Chapter 6: Orthogonality and Least Squares
- Chapter 7: Symmetric Matrices and Quadratic Forms