SYLLABUS MATH 1111: College Algebra

"Lecture Class"
This course will be delivered in-person this semester.

Instructor and Contact Information

Instructor: Stephanie Reikes
E-mail: stephanie.reikes@gatech.edu
Office: Skiles 228
Office Hours: Will be updated in Canvas.

General Information

Course Number and Title: MATH 1111, College Algebra
Course Institution: Georgia Institute of Technology
Course Meeting Times: Monday-Thursday, 2:00-2:50pm
Credit Hours: 4
Semester: Spring 2027
Course Location: Will be determined by Georgia Tech and found in https://oscar.gatech.edu/

Course Description

MATH 1111 provides an in-depth study of the properties of algebraic, exponential, and logarithmic functions as needed for pre-calculus and calculus. Emphasis is on using algebraic and graphical techniques for solving problems involving linear, quadratic, rational, polynomial, exponential, and logarithmic functions.

Course Learning Objectives

As a result of completing this course, students will be able to:

1) Interpret numerical, analytical and graphical approaches to solution of problems that can be expressed algebraically.
2) Solve linear, quadratic, exponential, and logarithmic equations.
3) Develop mathematical knowledge for real world problems.

Course Content

1) Order of Operations
2) Multiplying (FOILing) and factoring of quadratics and polynomials
3) Solve various algebraic equations including linear, quadratic, polynomial, rational, and radical
4) Interpret the slope and y-intercept of a line
5) Understand functions and their graphs
6) Graph transformations
7) Graph quadratic functions by determining vertex and intercepts
8) Graph polynomials and rational functions
9) Graph and solve exponential and logarithmic functions

Course Materials

Course Information: Canvas (*required*)
Textbook: College Algebra, Robert F. Blitzer, 8th Edition (optional)

Course Expectations

As your instructor, my role is to prepare you for future math courses at Georgia Tech, provide you with ample assignments and assessments to gauge your understanding and knowledge of the subject matter, provide feedback on your performance, and be available for assistance when needed.

As students, you are expected to take your responsibility seriously, attend and participate in all of the class meetings, behave in a respectful manner to your instructor and fellow students at each class meeting, complete all assignments in a timely and professional manner, study the subject matter outside of class time, and ask for help when necessary.

Student-Faculty Expectations guidelines can be found at http://www.catalog.gatech.edu/rules/22/.

Course Expectations

WELCOME MODULE: Syllabus Quiz, Start of The Semester Survey, Discussion Post, Selfie Scavenger Hunt. There is a 3% per day late penalty applied.

KNOWLEDGE CHECKS: Knowledge Check assignments are to be completed online using Canvas for each section of material covered. Due dates are listed in Canvas. Knowledge Checks are graded on score, not completion. You have **2 attempts**. There is a 3% per day late penalty applied.

SPOT/UNIT CHECKS: Spot/Unit Check assignments are to be completed online using Canvas and can be found throughout the module of material to check your recall of the content. Due dates are listed in Canvas. Spot/Unit Checks are graded on score, not completion. You have **1 attempt**. There is a 3% per day late penalty applied.

QUIZZES: There will be 8 quizzes administered in-person. The quizzes will be 2-4 questions from lecture and previous assignments and will be graded on score. Quizzes will be open note. Quizzes will be approximately 20 minutes in length. See calendar for dates.

EXAMS: There will be five exams administered in-person. See calendar for dates.

FINAL: The final exam will cover all course materials and will be administered in-person. See calendar for date.

Showing work is required on all written assignments. As writing mathematics properly is part of learning College Algebra, points will be deducted for incorrect or missing mathematical steps and notation. Problems with correct answers, but no work will receive 0 points.

Grading System

Your final grade will be computed as follows:

Assignment	Weight
Welcome Module	1%
Knowledge Checks	5%
Spot/Unit Checks	5%
Quizzes	7%
Exams	65% (13% each)
Final Exam	17%

The standard 10-point scale will be used to assign letter grades, but the cut-offs may be lowered to arrive at a standard distribution for the course:

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

Class Policies

Attendance: You are expected to come prepared and actively participate in every class session. In the event of an absence, you are responsible for all missed materials and any additional announcements or schedule changes given in class. The instructor is not responsible for re-teaching missed information. Students should refer to the class calendar to know what information was covered while they were not in class. Students are advised to get contact information from a fellow classmate who they can contact if they need to get copies of notes.

Students who are absent because of participation in approved Institute activities (such as field trips, professional conferences, and athletic events) will be permitted to make up the work missed during their absences. Approval of such activities will be granted by the Student Academic and Financial Affairs Committee of the Academic Senate, and statements of the approved absence may be obtained from the Office of the Registrar.

In the event of a medical emergency or an illness that is severe enough to require medical attention, students are responsible for contacting the Office of the Vice President and Dean of Students (Division of Student Life) as soon as possible to report the medical issue or emergency, providing dated documentation from a medical professional and requesting assistance in notifying their instructors.

More information can be found at http://www.catalog.gatech.edu/rules/4/

Academic Integrity: 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. All students are expected to comply with the Georgia Tech Honor Code.

Class disruptions of ANY kind will NOT be tolerated and may result in your removal from the classroom.

- **1st interruption = verbal warning**
- **2nd interruption = verbal warning and may be asked to leave the classroom**
- **3rd interruption = verbal warning, may be asked to leave the classroom, and reported to OSI**

Please show courtesy to your fellow classmates and instructor by adhering to the following class rules:

- Turn off and put away all food and electronic devices, unless needed for class.
- Come to class on time and stay for the entire class period. Be engaged, no sleeping allowed.
- Refrain from conversing with your fellow students while the instructor is speaking.
- Put away any reading materials unrelated to the course.
- Students will raise their hand and wait to be addressed before speaking during lecture.

Cheating includes, but is not limited to:

- Using an unapproved calculator, books, etc. on assessments.
- Copying directly from **any** source, including friends, classmates, tutors, internet sources (including Wolfram Alpha, Mathway, ChatGPT, etc.), or a solutions manual.
- Allowing another person to copy your work and/or sharing work with others.
- Taking an assessment in someone else's name, or having someone else take an assessment in your name.
- Asking for a regrade of a paper that has been altered from its original form.
- Using someone else's clicker to gain attendance points or to take quizzes or tests for them, or asking someone else to use your clicker for any graded or attendance submission.

Test Day Rules:

- Arrive 10 minutes early to get set up with instructions for the test.
- All backpacks and cell phones (electronic devices) must be left at the front/edge of the classroom.
- Keep eyes on your test and no soliciting for answers.
- No hats or items obstructing your face.
- No cell phones, laptops, smart watches, **calculators** or other electronic devices (you may be asked to remove a watch if the instructor is uncertain whether it is a smart watch).
- Please make sure all items (pencils, pens) needed for exam are out when testing begins. Retrieval of items after test begins is prohibited.
- No communication with other students during test for any reason, which includes verbal, non-verbal and electronic communication.
- Please use the restroom before coming to class. In the event of an emergency, please let the instructor know. You will be asked to leave your exam, cell phone, bag, etc. with the instructor while you leave the room.
- No earphones are allowed.
- Do not bring review pages into the classroom. If you want to review, then do that outside of the classroom. When you enter, all review material should already be put away in your backpack and be ready to take the test.
- Bring Buzz Card ID or Photo ID for verification of your identity

Use of Electronic Devices During Exams

To maintain academic integrity and minimize distractions, the use or possession of unauthorized electronic devices during any exam is strictly prohibited. This includes, but is not limited to, cell phones, smartwatches, fitness trackers, tablets, laptops, earbuds, smart glasses and any device capable of storing, transmitting, or receiving data.

Policy Details:

1. **Before the Exam:**
    - All electronic devices must be turned **completely off** (not on silent or airplane mode) and **stored away** in a backpack or bag placed at the front of the room.
    - Devices may **not** be kept on your person (e.g., in pockets, sleeves, or laps).

2. **During the Exam:**
    - Any visible or audible electronic device will be treated as a potential **violation of the academic integrity policy**, regardless of intent or use.
    - Students may not handle or access any device until all exam materials have been submitted and the instructor signals that the exam period has ended.
3. **After the Exam:**
    - Students may retrieve their devices only after leaving the testing area or when instructed to do so by the proctor.

Exceptions:
Students requiring electronic devices for accessibility or medical reasons must coordinate accommodations through the instructor and Office of Disability Services (ODS) prior to the exam date. If no arrangements were made at least 48 hours before the exam, then the above policy will be in effect.

Consequences of Course Violations:

Students caught:

- **cheating or plagiarizing on an assignment, quiz, or assessment**
- **with a cell phone/electronic device during an assessment**

will be reported to the Office of Student Integrity (OSI) as a suspected violation of the Georgia Tech Academic Honor Code. Pending review, a grade of zero may be recorded on the assessment. Violations may result in penalties including a zero on the assessment, failure in the course, and/or additional disciplinary actions.

The honor code can be found at http://www.policylibrary.gatech.edu/student-affairs/code-conduct.

Re-grading of Papers: If a problem has been graded in error, you must submit a regrade request to me **in writing,** along with your paper, no more than *one week* after the papers have been returned in class. Should you wish to have your paper regraded, *do not change or add to the work on your paper*! If you must write on your returned paper, be sure to write in a different color ink and clearly indicate what you have added.

Make-Ups: Make-ups will be allowed for university-sponsored events, illness, and death in the family. To complete the make-up, written documentation from the Office of the Registrar or Division of Student Life must be received. The make-up **must not exceed 1 week** from missed assignment. Make-ups can be completed in office hours or at a scheduled time with the instructor.

Artificial Intelligence (AI) Policy: The use of Artificial Intelligence (AI) tools (such as ChatGPT, Copilot, or similar programs) must comply with the expectations of academic integrity and the learning goals of this course. Unless explicitly permitted for a specific assignment, students may not use AI tools to generate, edit, or complete any portion of their work. This includes, but is not limited to, producing written responses, solving problems, creating images, or rephrasing text.

If AI use is permitted for an assignment, the following applies:

- You must clearly document how and where AI tools were used (for example, by noting prompts and outputs).
- You are responsible for verifying accuracy and ensuring all ideas, explanations, and language reflect your own understanding.

- Submitting AI-generated work as your own without disclosure constitutes academic misconduct under institute policy.

In summary:

☑ You may use AI only when explicitly authorized.
❌ You may not use AI to generate or edit graded work without permission.
💡 When in doubt, ask the instructor before using AI.

Accommodations for Students with Disabilities: Georgia Tech complies with the regulations of the Americans with Disabilities Act and offers accommodations to students with disabilities. If you need classroom or testing accommodations, please make an appointment with disability services to discuss your needs and to obtain an accommodations letter. More information is available on their website, http://disabilityservices.gatech.edu/. After your intake appointment is complete, please make an appointment with me to discuss your accommodation and learning needs.

All exam proctoring will be done by myself, or by a faculty approved proctor. The use of the ODS Testing Center will be prohibited in the course this semester.

Accessibility: I am committed to providing both physical accessibility and access to information resources and technologies to individuals with disabilities. The Institute's vision is to create a culture of access for an inclusive learning and working environment. Accessibility ensures that people with disabilities can perceive, understand, navigate, and interact and contribute with the course material and websites. It encompasses all disabilities that affect access, including visual, auditory, physical, speech, cognitive, and neurological disabilities. While I am committed to making my course accessible within the guidelines of Title II of ADA, it will take time. It may take several semesters to create accessible PDFs with math content due to the coding nature of mathematical formulas. In the meantime, should you have any questions or concerns about accessibility, please let me know. I am happy to work with you and the Office of Disability Services regarding class materials.

Calculators: While you may need a scientific calculator for help with an occasional problem in the course, the use of calculators is **NOT ALLOWED** on quizzes or exams.

Announcements: I will frequently update the class pages with class information and materials. *You are responsible for obtaining any announcements or materials placed on Canvas* (canvas.gatech.edu).

Missing Grades: On Canvas, if your grade is not reported, that means I do not have a submission from you for that assignment. If your submission score is listed as "0" or is not posted on Canvas, you will also have one week after papers have been returned to report a missing paper. After that time, hard copies of the papers may be shredded, and any unreported submissions will be scored as a "0". It is every student's obligation to check Canvas regularly and report grading errors promptly to their instructor.

Additional Help: *Asking questions is key to success!* Don't hesitate to reach out to me via e-mail! Free "walk-in" help is also available Monday-Friday in the **"Math Lab."** You can view the schedule at https://tutoring.gatech.edu/drop-in/.

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.

CIOS Incentive

To help encourage students to complete the CIOS survey, if the completion rate is above 85% for an entire class by the end of the semester, then the **lowest 1 quiz** will be dropped!

Class Mode

Note on class modes regarding weather/illness: The instructors, TAs and LAs hope to provide an in-class experience for students as much as possible this semester. However, at times, it may be necessary for classes to have a substitute, move online or be cancelled due to campus/weather conditions, or illness/isolation of the instructor or TA. We will notify students as soon as possible if any classes will meet online. Any sessions that move online, will use the Zoom platform. We also strongly encourage students who are sick to stay home, so that we can safely continue to offer as many in-person classes as possible. In the event health conditions and/or class mode delivery changes, announcements will be made on the course Canvas page. Updates could include online tests, take home tests, requiring the use of Honorlock proctoring tool, and an additional device containing a webcam for live proctoring.

Important Dates

11 Jan – First Day of Classes
15 Jan – Last day to register, make schedule changes, and/or drop courses without a "W" grade
18 Jan – Holiday (No Classes)
8-12 Mar – Spring Break (No Classes)
17 Mar – Withdrawal Deadline
26 and 27 April – Final Instructional Day
28 April – Reading Day
29 April – 6 May – Final Exam Week

Campus Resources

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.

- Tutoring & Academic Support http://tutoring.gatech.edu
  - Knack Tutoring
  - Peer-Led Undergraduate Study (PLUS)
  - Commons/Drop-In Tutoring (Including the Math Lab)
- Communication Center http://www.communicationcenter.gatech.edu
  - Individualized help with writing and multimedia projects
- Academic Success and Advising https://www.success.gatech.edu/

- The Office of the Dean of Student https://studentlife.gatech.edu/
- Center for Mental Health Care and Resources https://mentalhealth.gatech.edu/
- Students' Temporary Assistance and Resources (STAR) https://star.studentlife.gatech.edu/
    - Can assist with interview clothing, food, and housing needs.
- Stamps Health Services: https://health.gatech.edu
    - Primary care, pharmacy, women's health, psychiatry, immunization and allergy, health promotion, and nutrition
- Georgia Tech Police; **404-894-2500**

MATH 1111, COLLEGE ALGEBRA **SPRING 2027**

Tentative Calendar

Please use this as an approximate class schedule; section coverage may change depending on the flow of the course.

Monday	Tuesday	Wednesday	Thursday	Friday
1/11 Syllabus Day	**1/12** P.1	**1/13** P.2	**1/14** Practice Quiz	**1/15**
1/18 Holiday – No Classes	**1/19** P.3	**1/20** P.4 Welcome Module Due	**1/21** Review Quiz #1	**1/22**
1/25 P.5	**1/26** P.6	**1/27** Review	**1/28** Exam #1	**1/29**
2/1 1.1	**2/2** 1.2	**2/3** 1.4	**2/4** Review Quiz #2	**2/5**
2/8 1.5	**2/9** 1.5 Continued	**2/10** 1.6	**2/11** Review Quiz #3	**2/12**
2/15 1.6 Continued	**2/16** 1.7	**2/17** Review	**2/18** Exam #2	**2/19**
2/22 2.1	**2/23** 2.2	**2/24** 2.3	**2/25** Review Quiz #4	**2/26**
3/1 2.4	**3/2** 2.5	**3/3** 2.6	**3/4** Review Quiz #5	**3/5**
3/8 _____	**3/9** _____	**3/10** **Spring Break**	**3/11** _____	**3/12** _____
3/15 2.7	**3/16** 2.8	**3/17** Review	**3/18** Exam #3	**3/19**
3/22 3.1	**3/23** 3.2	**3/24** 3.3	**3/25** Review Quiz #6	**3/26**
3/29 3.4	**3/30** 3.5	**3/31** 3.2-3.5 Cont.	**4/1** Review Quiz #7	**4/2**
4/5 3.6	**4/6** 3.6 Continued	**4/7** Review	**4/8** Exam #4	**4/9**
4/12 4.1	**4/13** 4.2	**4/14** 4.3	**4/15** Review Quiz #8	**4/16**
4/19 4.4	**4/20** 4.4 Continued	**4/21** Review	**4/22** Exam #5	**4/23**
4/26 **Final Exam Review**	**4/27** **Final Exam Review** **LAST DAY OF CLASS**	**4/28** **READING DAY**	**4/29**	**4/30** **Final Exam 2:40am-5:30pm**
5/3	**5/4**	**5/5**	**5/6**	**5/7**