

MATH 1711 Syllabus

Finite Mathematics, Section [X], 3 credits
Fall 2026

Instructor Information

Instructor

Haiyu Zou

Email address:

hzou6@gatech.edu

General Course Information

Description

Course Number and Title: MATH 1711, Finite Mathematics

Prerequisites: Math SAT score of 550 or higher, or ACT 24, or MATH 1113 Precalculus

An introduction to finite mathematics with applications. Topics include: logic and sets, counting techniques, probability, statistics, linear programming, and mathematics of finance.

Course Learning Outcomes

- Students will apply counting techniques, including permutations and combinations, to solve probability problems.
- Students will compute probabilities for discrete and continuous settings and apply conditional probability and Bayes' theorem.
- Students will analyze data using descriptive statistics and make inferences using basic statistical methods.
- Students will formulate and solve linear programming problems using graphical and simplex methods.
- Students will apply mathematics of finance, including simple and compound interest, annuities, and amortization.
- Students will understand and use appropriate mathematical notation throughout all course topics.

Required Course Materials

Textbook: Goldstein, Schneider, & Siegel, Finite Mathematics & Its Applications, 13th ed.

MyLab is required and includes an electronic version of the textbook. Access MyLab directly through Canvas — no course ID needed. A MyLab access code may be purchased from the bookstore or online.

Grading Policy

The final grade will be determined using the following weightings:

MyLab Homework:	10%
Quizzes:	20%
Midterm Exams (average of 3):	45%
Final Exam:	25%
Studio Participation:	up to 2% extra credit

Letter grades: A: 90–100, B: 80–89, C: 70–79, D: 60–69, F: 0–59.

An Incomplete ('I') is assigned only when a student was making satisfactory progress but was unable to complete the course for non-academic reasons beyond their control and deemed acceptable by the instructor.

Description of Graded Components

MYLAB HOMEWORK: Homework will be assigned online through MyLab. Homework is due at 11:59 PM on due dates (except during class recesses or as announced in class). No late homework will be accepted. When signing up for MyLab, please set your Student ID to your GT username (e.g., "gburdell3").

STUDIO PARTICIPATION: Your TA will assess participation based on attendance and effort during studio sessions. A score of 0–2 will be assigned at the end of the semester and added to your final average as extra credit.

QUIZZES: Four quizzes will be given throughout the semester. They will be 20 minutes long. The lowest quiz score will be dropped. No makeup quizzes will be given.

MIDTERM EXAMS: There will be three in-person midterm. No makeup exams will be given. Exceptions may be made for Georgia Tech-sponsored events or documented illness; contact the Office of the Vice President and Dean of Students with dated documentation. Travel is not an acceptable reason to miss an exam.

FINAL EXAM: The final exam is comprehensive and mandatory. More details can be found on Canvas.

Please note: items on the syllabus are subject to change. Any changes will be communicated in class and on Canvas.

Course Policies

Attendance and Participation

You are expected to come prepared and actively participate in every lecture and studio session. In the event of an absence, you are responsible for all missed material, assignments, and announcements made in class.

Examinations and quizzes will be administered in-person and on-campus only. Exam make-ups will only be provided for excused absences (Georgia Tech-sponsored events or documented illness). To qualify,

contact the Office of the Vice President and Dean of Students as soon as possible with dated documentation from a medical professional. Travel is not an acceptable reason to miss an exam.

Regrades

Regrade requests must be submitted in writing within one week after graded work is returned, along with the original paper. Do not alter your paper before submitting a regrade request. Requests will only be considered when something correct has been marked incorrect; check the posted solutions before submitting.

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. Review Georgia Tech's Honor Code at www.honor.gatech.edu.

Any student suspected of cheating or plagiarism on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate and identify the appropriate penalty for violations.

Core IMPACTS

This is a Core IMPACTS course in the STEM area.

Core IMPACTS provides students with essential knowledge in foundational academic areas. This course supports the orienting question: How do I ask scientific questions or use data, mathematics, or technology to understand the universe? Upon completion, students will use mathematical and computational methods to analyze data, solve problems, and explain natural phenomena. Career-ready competencies developed include Inquiry and Analysis, Problem-Solving, and Teamwork.

Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, contact the Office of Disability Services (404-894-2563) as soon as possible to make an appointment to discuss your needs and obtain an accommodations letter. Please also email me as soon as possible to set up a time to discuss your learning needs.

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. The Student-Faculty Expectations articulate some basic expectations that you can have of me and that I have of you. I encourage you to remain committed to the ideals of Georgia Tech while in this class.