MATH 1711 Syllabus

Finite Mathematics, 4 credits
Summer 2026

Instructor Information

Instructor	**Email Address**
TBD	

General Course Information

Description

Course Number and Title: MATH 1711, Finite Mathematics

Linear equations, matrices, linear programming, sets and counting, probability, and statistics.

Course Learning Outcomes

- Students can work various types of counting and probability problems, including probability using counting, conditional probability, and binomial probability.
- Students have learned basic statistics, including measures of dispersion and the normal distribution.
- Students understand basic matrix operations, and can apply matrices to solving systems of linear equations.
- Knowledge of the above topics can be applied to business, economics, and finance.
- Probability and matrix operations can be used to solve applications, including Markov chains and game theory.

Required Course Materials

Textbook: Goldstein, Schneider, & Siegel, *Finite Mathematics & Its Applications*, 13th ed. Purchasing the textbook is optional but recommended.

Grading Policy:

The final grade will be determined using the following weightings:

Homework:	10%
Quizzes:	25%
Midterm and Final Exams*:	60% or 65%
Studio participation:	up to 2% extra credit
Lecture attendance**:	0% or 5%

*The three midterm exams will each count once and the final exam will count twice, giving five overall test grades. Of those five, the best four scores will count in the overall final average.

**Students have an option to count lecture attendance towards the final grade.
Opt-in: The combined exam score counts 60% and attendance counts 5%.
Opt-out: The combined exam score counts 65% and attendance does not count.

Letter grades will be determined based on the following intervals. ***You are guaranteed a minimum***

of the following scale, but do not expect any deviation:

A: 90% and higher, **B**: [80%, 90%), **C**: [70%, 80%), **D**: [60%, 70%), **F**: [0%, 60%).

Description of Graded Components

HOMEWORK: Homework will be assigned throughout the term and is required for all students.

LECTURE ATTENDANCE: Students who regularly attend lectures will have the option to count attendance as a portion of their overall final grade. Please see the additional class policies on Canvas for more details on this option and how to opt-in.

STUDIO: Class participation will be based on your attendance and participation in the problem-based studios. A score of 0-2% will be assigned to each student at the end of the semester, which will be added onto the final average as extra credit. Please see the additional class policies on Canvas for more details.

QUIZZES: Short quizzes will be administered at the beginning of class in studios on non-exam weeks. Days of the week may vary. The lowest quiz score will be dropped at the end of the term. No make-ups will be granted on missed quizzes.

MIDTERM EXAMS: We will have three in-person tests this semester. Tests will be administered during the scheduled class periods. More details about exams can be found on the additional policies page on Canvas.

FINAL EXAM: The in-person final exam is mandatory and will cover all course materials. Please see more details about the weighting of the final exam in the additional course policies posted on Canvas.

Please note: *items on the syllabus and course schedule are subject to change. Any changes to the syllabus and/or course schedule will be relayed to the students in class and on Canvas.*

Course Policies

Attendance and/or Participation

You are expected to come prepared and actively participate in the class sessions. In the event of an absence, you are responsible for all missed materials, assignments, and any additional announcements or schedule changes given in class.

Seating in our classrooms is limited. As space must be guaranteed for all registered students, please do not attend a studio section for which you are not registered. The instructors and TAs reserve the right to remove unregistered students from their classrooms. Students must attend the section for which they have officially registered to earn studio participation points.

Examinations will be administered in-person and on-campus only. Any requests for flexibility in the exam dates or modes will be denied. Exam make-ups will also be in-person and will only be provided for ***excused*** absences, and not for personal travel. **No exceptions will be made to the in-person examination policy, so please be sure you will be present on campus for those dates.**

Regrades

All regrade requests must be submitted in writing via Gradescope within one week after graded papers have been released. Please be sure to check the solutions first as regrades are only accepted when there is a grading error. Misuse of this policy may result in further grade deductions and/or referral to the Dean of Students. Additional policy details are available on Canvas.

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 and the student Code of Conduct.

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 the incident and identify the appropriate penalty for violations.

Zero-tolerance cell phone policy: On all course examinations, the instructors will have a zero-tolerance policy regarding cell phones, ear buds/headphones, and other similar communication devices. No student will be allowed to have a cell phone or other electronic equipment at their desk, on their person, or in the vicinity of their workspace during exams. Should an exam proctor catch a student with a phone, it will be considered as academic misconduct, whether or not the phone was in use at the time, and the exam score will be a "0."

Please note: if a student is found responsible for academic misconduct and assigned a grade of "0" on a midterm exam per the Office of Student Integrity, then that "0" test grade must count in the final average and ***cannot be replaced*** by the final exam.

Core IMPACTS

This is a Core IMPACTS course that is part of the STEM area.

Core IMPACTS refers to the core curriculum, which provides students with essential knowledge in foundational academic areas. This course will help master course content, and support students' broad academic and career goals.

This course should direct students toward a broad Orienting Question:

- How do I ask scientific questions or use data, mathematics, or technology to understand the universe?

Completion of this course should enable students to meet the following Learning Outcome:

- Students will use the scientific method and laboratory procedures or mathematical and computational methods to analyze data, solve problems, and explain natural phenomena.

Course content, activities and exercises in this course should help students develop the following Career-Ready Competencies:

- Inquiry and Analysis
- Problem-Solving
- 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 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.

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. 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.