Finite Math

Last Updated: Fri, 08/01/2025

Course prefix: Math

Course number: 1711

Section: A

CRN (you may add up to five):
93538

Instructor First Name: Haiyu

Instructor Last Name: Zou

Semester: Fall

Academic year: 2025

Course description:

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

Course learning outcomes:

By the end of this course, students will be able to solve and analyze linear equations and systems using matrices, apply linear programming methods to optimize real-world scenarios, utilize set theory and counting principles to model and evaluate outcomes, and calculate as well as interpret probabilities and fundamental statistical measures to support data-driven decision-making.

Required course materials:

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

MyMathLab is required and contains an electronic version of the textbook. You can access MyLab directly on our course page on Canvas. We will be utilizing MyMathLab (MML) for homework. While accessing on Canvas, no courseID is needed.

Grading policy:

Your final grade is a weighted sum of your grades of assignments, midterms, quizzes, and the final.

$G=0.10\times\bar{H}+0.20\times\bar{Q}+0.45\times\bar{M}+0.25\times F+E$

H^- are the average percentages of your MyLab grades. Q^- denotes your average quiz percentage with the lowest one dropped. M^- denotes the average percentage of 3 midterms. F is the percentage of your final exam and E here stands for extra credits you can get via participating in studio and lecture.

The usual ten-point scale will be used: A:90-100, B: 80-89, C: 70-79, D: 60:69, F:0-59.

Extra Credits

Past experiences have consistently shown that students who attend lectures and studios regularly tend to perform better in their courses. Attending lectures not only enhances your understanding of the subject matter but also provides you with opportunities for clarifications and engagement with your peers and instructors.

Attendance policy:

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 materials, assignments, and any additional announcements or schedule changes given 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 exams 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.

Class disruptions of ANY kind will NOT be tolerated and may result in your removal from the classroom and/or loss of participation points for that day.

Academic honesty/integrity statement:

Students are expected to maintain the highest standards of academic integrity. All work submitted must be original and properly cited. Plagiarism, cheating, or any form of academic dishonesty will result in immediate consequences as outlined in the university's academic integrity policy.

Core IMPACTS statement(s) (if applicable):

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 com-

putational 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