Finite Mathematics

Last Updated: Fri, 01/02/2026

Course prefix: Math

Course number: 1711

Section: C, E

CRN (you may add up to five):
30197 27198

Instructor First Name: Ikenna

Instructor Last Name: Nometa

Semester: Spring

Academic year: 2026

Course description:

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

Course learning outcomes:

At the conclusion of Finite Mathematics, it is expected that:

- Students can work on 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.

Grading policy:

Your final grade is a weighted sum of your grades for MyLab Math homeworks, studio quizzes, midterms, project, and the final.

$G = 0.10 \times H + 0.15 \times Q + 0.40 \times M + 0.10 \times P + 0.25 \times F + E$

Here, G is your total grade for the course (up to 100%). H are the average percentages of your MyLab Math grades. Q denotes your average quiz percentage with the lowest one dropped. M denotes the average percentage of your midterms, with the lowest dropped. P is the percentage of your project grade, F is the percentage of your final exam, and E here stands for the extra credit points earned throughout the semester.

The usual ten-point letter grade scale will be used:

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

An Incomplete (an 'I') is assigned when a student was doing satisfactory work, but was unable to meet the full requirements of the course for nonacademic reasons beyond their control and deemed acceptable by the instructor. If the student's performance was so poor as to preclude their receiving a passing grade, the instructor shall assign the grade of F.

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 classmate whom 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. Please show courtesy to your classmates and instructor by adhering to the following class rules:

- Turn off all laptops, cellular phones, and other electronic devices, unless you have a documented need to use such devices for notetaking, during class.
- Come to class on time and stay for the entire class period.
- Refrain from conversing with your fellow students.
- Put away any reading materials unrelated to the course.

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 students master the 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 Outcomes:

- 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, and Teamwork.