Precalculus

Course prefix: Math

Course number: 1113

Section: G

CRN (you may add up to five):
80405

Instructor First Name: Haiyu

Instructor Last Name: Zou

Semester: Fall

Academic year: 2025

Course description:

Analytic geometry, the function concept, polynomials, exponential, logarithms, trigonometric functions, mathematical induction, the theory of equations.

Course learning outcomes:

By the end of this course, students will be able to analyze and apply the fundamental concepts of functions, including polynomial, exponential, logarithmic, and trigonometric functions; interpret and solve problems involving analytic geometry; and explore the theory of equations to prepare for advanced study in calculus and related fields.

Required course materials:

No textbook purchase is required for this course. Optionally, students can follow *Precalculus: A Unit Circle Approach*, by, *Ratti and McWaters* for extra reading.

Grading policy:

Your final grade is a weighted sum of your grades of online/lecture/studio activities, midterms, quizzes, and the final.

The final exam and midterms will take up 20% and 60% respectively. Quizzes 8%. And the remaining weights will be on online/lecture/studio activities.

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%)

S: [70%, 100%]; **U:** [0, 70%)

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.