

Multivariable Calculus

Last Updated: Tue, 03/17/2026

Course prefix: MATH

Course number: 2551

Section: PBS

CRN

93538

Instructor first name: Leonardo

Instructor last name: Abbrescia

Semester: Fall

Academic year: 2026

Course description: Multivariable calculus: Linear approximation and Taylor's theorems, Lagrange multipliers and constrained optimization, multiple integration and vector analysis including the theorems of Green, Gauss, and Stokes. Credit will not be awarded for both MATH 2551 and MATH 2401 or MATH 2411 or MATH 2561.

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