Multivariable Calculus
MATH 250
Spring 2026

Instructor

Dr. Seth Harris
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Class Meetings

Monday, Wednesday, Friday 11:50 AM – 12:55 PM
Hall of Sciences 308

Zoom (when necessary)

This is an in-person course. It is possible that, when necessary, we may hold class online on Zoom.

Zoom link: https://drew.zoom.us/s/705701040

Meeting ID: 705 701 040

Office Hours

Monday 1:15 PM – 2:30 PM
Tuesday 10:30 AM – 11:30 AM
Wednesday 10:30 AM – 11:30 AM
or by appointment

Office hours will typically be held in person whenever Drew classes are meeting in person. However, you may always request to meet online during these times. Occasionally I will hold office hours online only.

Office hour Zoom link: https://drew.zoom.us/s/284748767

Office hour meeting ID: 284 748 767

Course Description

Extending the concepts of calculus from two to three or more dimensions: partial differentiation, multiple integration; analytic geometry in three dimensions, vectors, line and surface integrals, applications.

Prerequisite

MATH 150 (Calculus I) with a grade of C- or higher. You need to be comfortable with the usual rules of differentiation (power, product, quotient, chain), and with basic indefinite and definite integrals including u-substitution.

Officially MATH 151 (Calculus II) is no longer a prerequisite, and the majority of its material is not needed for our course. However, two small topics will occasionally appear: integration by parts (7.1), and integrating powers of sine and cosine functions (7.2).

Textbook and Course Outline

Calculus: Early Transcendentals, 9^{th} Edition, with WebAssign Access, by James Stewart, Daniel Clegg, and Saleem Watson

Chapter 12, Vectors and the Geometry of Space
Chapter 13, Vector Functions
Chapter 14, Partial Derivatives
Chapter 15, Multiple Integrals
Chapter 16, Vector Calculus

You have prepaid access to an ebook which includes WebAssign, and are not required to buy a hard copy of the textbook.

If you purchased multi-term WebAssign access for a previous calculus course, you may already have access to it.

Grading

15% Homework via WebAssign
17% Exam 1, Friday, February 13
17% Exam 2, Friday, March 20
17% Exam 3, Friday, April 17
24% Final Exam, Wednesday, May 13
10% Average of highest two of four exams

Homework via WebAssign

Homework will be assigned most weeks. We will use WebAssign, an online interface for completing homework assignments. You will be allowed to turn in at most two homework assignments late. Any late assignment is due by the next homework deadline (e.g., the Friday after it was originally due), and you need not give any explanation to your instructor regarding why it was late.

The WebAssign key for this class is: **drew 6176 7695**.

Exams

There will be three midterm exams and a cumulative final exam. All exams will be sit-down exams with no calculators or notes permitted; however, you will be allowed to create a one-page one-side formula sheet. The final exam is currently scheduled for Wednesday, May 13 from 12:30–3:30 PM.

If you are unable to make an exam, it is your responsibility to notify your instructor at least 24 hours prior to the exam and arrange a make-up time. If you miss an exam without doing so, a make-up exam will NOT be allowed, unless you have a valid absence verification from the CAE.

Attendance

We expect that you will attend class every day. Repeated absences will negatively affect your mathematical understanding and, ultimately, your final grade. Regular attendance will enhance your comprehension of mathematical concepts, and will help you solving your homework and being productive on exams.

Absence Policy Statement

In addition to the course attendance policy, students should be aware of their rights and responsibilities regarding absences for legitimate reasons as described in the Absence Policy: Student Rights and Responsibilities, which is located in the Academic Policy section of Drew's course catalog under Attendance. Legitimate planned absences may include religious holidays, NCAA-sanctioned competition, academic conference or some Drew-sanctioned events. Students need to inform the faculty member of planned absences in the first week of the semester. For unforeseen extended health issues please see the academic accommodations statement.

Student Learning Outcomes

Student Learning Outcomes – By the end of the course, students will be able to:

- Convert real-world problems into appropriate mathematical problems, solve them, and appropriately interpret the results
- Analyze and solve problems in two and three dimensional Euclidean space using methods of Vector Analysis
- Calculate and interpret limits, derivatives, and integrals of functions of several variables and vector functions, including partial derivatives, directional derivatives, multiple integrals, and line integrals
- Use technology to support problem solving and enhance understanding
- Provide clear, complete, self-contained solutions in written form in which they express mathematical ideas via the correct use of clear, concise notation
- Explain and interpret their work and results, communicating mathematical material with clarity and coherence through writing and speaking

Academic Accommodations

Your experience in this class is important to me. If you have already established accommodations with the Office of Accessibility Resources (OAR), please provide me with a copy of your accommodation letter at your earliest convenience so we can discuss your needs in this course.

If you have not yet established services through the Office of Accessibility Resources (OAR), but have a temporary health condition or permanent disability that requires accommodations (conditions include but not limited to: mental health, attention-related, learning, vision, hearing, physical or health impacts), you are encouraged to contact OAR. OAR offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions.

Although a disclosure may take place at any time during the semester, students are encouraged to do so early in the semester, because, in general, accommodations are not implemented retroactively.

Office of Accessibility Resources contact information:
Director: Dana Giroux
Location: Brothers College, Room 119B
Phone: 973-408-3962
Email: dgiroux@drew.edu, disabilityserv@drew.edu

Academic Integrity

All students are required to uphold the highest academic standards. Any case of academic dishonesty will be dealt with according to the guidelines and procedures outlined in Drew University's Standards of Academic Integrity: Guidelines and Principles, which is located in the academic policies section of the catalog.

Supporting Student Success, Center for Academic Excellence

All Drew students can access subject tutoring, writing support and academic coaching free of charge in the Center for Academic Excellence (CAE), located in the library. Seeking help through learning support resources in the CAE can help you achieve your academic goals. To access the appointment schedule, please visit drew.mywconline.com and follow the instructions on the landing page; if a tutor is not available, please submit the Tutor Request form. For any other questions, email cae@drew.edu

Final Exam Policy Statement

If extenuating circumstances occur, students may submit a Final Exam Reschedule request for review by the Associate Provost. Students may not negotiate a make-up date directly with the course instructor. Students may request to reschedule an exam under the following circumstances:

1. Two final exams scheduled at the same time;
2. Three finals are scheduled in one calendar day; one of the exams will be rescheduled at the convenience of the instructor and the student;
3. Serious illness, or personal emergency; the student is required to present documentation to validate.

The final exam schedule is visible on the Registrar's website by the beginning of each semester. Students are expected to schedule travel plans for AFTER their final exams.