

Calculus III

Math 250

Spring 2024

Instructor

Dr. Seth Harris
Hall of Sciences 302
Email (preferred): sharris2@drew.edu
Phone: (973) 408-3401

Class Meetings

Monday, Wednesday, Friday 11:50 AM – 12:55 PM
Brothers College 120

Zoom (when necessary)

When necessary, we will hold class online on Zoom. All Zoom meetings will be recorded.

Zoom link: <https://drew.zoom.us/j/705701040>

Meeting ID: 705 701 040

Office Hours

Monday 2:30 PM – 3:30 PM
Tuesday 1:15 PM – 2:30 PM
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/j/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 151: Calculus II with a grade of C- or higher

Textbook and Course Outline

Calculus: Early Transcendentals, 8th Edition, by James Stewart, with WebAssign Bundle

Chapter 12, Vectors and the Geometry of Space

Chapter 13, Vector Functions

Chapter 14, Partial Derivatives

Chapter 15, Multiple Integrals

Chapter 16, Vector Calculus

It is possible to purchase WebAssign plus the ebook, without purchasing a print textbook. You will see this option once you create a WebAssign account.

Grading

- 20% Homework via WebAssign
- 16% Exam 1, Monday, February 12
- 16% Exam 2, Friday, March 15
- 16% Exam 3, Friday, April 12
- 22% Final Exam, Wednesday, May 8
- 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 are encouraged to work in groups, but each student must turn in their own work. 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 6508 0698**.

Exams

There will be three midterm exams and a cumulative final exam. All exams will be sit-down exams with no calculators, notes, or books permitted. The final exam is currently scheduled for Wednesday, May 8 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.

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 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.

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 policies section of Drew's course catalog. 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.

Academic Accommodations

Students with approved accommodations through the Office of Accessibility Resources (OAR) should provide the instructor with an accommodation letter by September 6, 2023. If you have not established services through the Office of Accessibility Resources (OAR) but have a temporary health condition or permanent disability that requires accommodations (including, but not limited to; mental health, attention-related, learning, vision, hearing, physical or health conditions), you are encouraged to contact OAR. Although a disclosure may take place at any time during the semester, students are advised to do so as early as possible. For more information, visit [OAR's Website](#), contact Dana Giroux in Brothers College 119B, or at 973-408-3962, dgiroux@drew.edu or disabilityserv@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.