

Duke University
Mathematics 103-Intermediate Calculus

Section: 01

Lecture: M Tu W Th F 12:30-13:45 in Physics, room 205

Instructor: Michael Kozdron

Office: 250F Physics Building

Phone: 660-2855

Email: kozdron@math.duke.edu

Course Home Page: <http://www.math.duke.edu/~kozdron/Instruction/103Summer01/>

Office Hours: By Appointment

Required Text:

Calculus with Analytic Geometry, Fifth edition by Henry Edwards and David Penney

Course Description:

Partial differentiation, multiple integrals, and topics in differential and integral vector calculus, including Green's theorem, the divergence theorem, and Stokes' theorem.

Prerequisites:

Mathematics 32, 32L, or 41, or equivalent.

Grading Information:

Your final grade will be determined by your performance on the assignments, the term tests, and the final examination. I will use the following evaluation methods in the indicated percentages to arrive at your final grade.

Evaluation Type	Number	Percentage of Final Grade
Daily Problem Sets	25	0%
Assignments	5	10%
Term Tests	2	40%
Final Exam	1	50%

Daily Problem Sets:

In order to master the material it is not enough to attend lecture and just do the assignments. It is imperative to also read the text and attempt as many problems as possible. The longer assignments will consist mainly of more theoretical questions and will assume that you have done some of the basic computations on your own. Consequently, daily problem sets will be assigned though they will not be collected and graded.

Assignments:

There will be five longer assignments given throughout the course. Assignments must be stapled and handed in at the beginning of class on the day that they are due. No late assignments will be accepted.

Term Tests:

Two term tests will be held in lecture. Both tests will be closed-book, will include both conceptual and computational questions, and will cover the material from the lectures, the readings, and the assignments. Though there may be problems similar to those done on the problem sets, there is no value in having students solve problems they have done before. Therefore, most test problems will require you to put together what you know in new and different ways; this is the only way to effectively evaluate your understanding of the material.

Final Exam:

There will be a final exam held during the University's examination period.

Exam Dates:

Both the two term tests and the final exam will be written in lecture.

- Test #1: Monday, June 4, 2001
- Test #2: Monday, June 18, 2001
- Final Exam: Wednesday, June 27, 2001, 9:00-12:00

Policy for Missed Tests and Final Exam:

There will be no make-up tests or final exam in this course. Any absence from a test is inexcusable and will result in a grade of 0 unless the student has made prior arrangements to miss the test. If you are sick and miss a test, then you must produce a Dean's excuse. Students should also familiarize themselves with the section on Final Examinations and Excused Absences in the *Duke University Bulletin of Undergraduate Instruction*.

General Policies:

The summer session is administered by the Duke University Office of Continuing Education and Summer Session. Their web site at <http://www.learnmore.duke.edu/SummerSession/> contains information relevant to summer study at Duke.

Web Site:

I have written a web site for this course. The URL is <http://www.math.duke.edu/~kozdrone/Instruction/103Summer01/>. I will be updating this site throughout the term and you will be able to download any handouts that you don't get in class. I've included information about the course, the textbook, and calculus in general.

Email:

Email will be the predominant form of course related communication between both students and the instructor. Therefore, please check your email regularly for course updates and homework/test information.

Duke Honor Code:

It is expected that all students abide by the Duke University Undergraduate Honor Code and are familiar with the importance of academic integrity and the definition of plagiarism as detailed in the *Duke University Information and Regulations for Trinity College of Arts and Sciences and the School of Engineering*.