

Math 1312

Calculus II

Spring 2007

Instructor: Dr. Ryan C. Daileda

- Office: Marris McLean Science Building (MMS), Room 115H
- Telephone: 999-8265
- e-mail: rdaileda@trinity.edu
- URL: <http://www.trinity.edu/rdaileda>

Scheduled Lectures:

- Section 1: MWF 9:30 - 10:20, Marris McLean Science Building (MMS), Room 140
- Section 2: MWF 10:30 - 11:20, Marris McLean Science Building (MMS), Room 140

Office Hours: Monday and Wednesday 4:00 - 5:30, Tuesday 1:30 - 2:30, Friday 1:00 - 3:00, and by appointment

Textbook: *Calculus, Early Transcendentals, Matrix Version* (edition 6e) by Edwards & Penney

Course URL: <http://lagrange.math.trinity.edu/rdaileda/calculus>

Prerequisites: Math 1311 (Calculus I).

Course Content: This course is a continuation of Calculus I. We will begin by picking up where Math 1311 left off, studying applications of the definite integral including area, volume and work computations. We will then take up a more thorough study of integration (a.k.a. antidifferentiation) techniques, including integration by parts, trigonometric substitutions and partial fractions. Once our bag of integration “tricks” is full, we will spend some time solving ordinary differential equations and then move on to the basics of infinite series, introducing the notions of absolute and conditional convergence, some convergence tests, as well as Taylor series and Taylor polynomials. Finally, we’ll conclude the semester with a brief tour of the basics of vector and matrix algebra. A more complete list of topics to be covered can be found on the course web page.

Homework: Homework will be assigned daily and will consist of reading (yes, you have to read the textbook!) as well as problem solving. All assignments will be posted on the course homework web page. Reading assignments are to be completed daily while written work will typically be turned in once a week. Due dates for written work will be clearly indicated as the work is assigned. **Late homework will not be accepted in the absence of divine intervention or matters of similar weight. Unexcused late and missing papers count zero.**

Homework exercises are to be written *neatly* using *one side* of 8.5×11 inch paper, and multiple pages should be stapled or paper-clipped together. Do not use paper from a spiral notebook unless

you can tear off the ragged edge. **Failure to adhere to these guidelines will be penalized. Sloppy work and work written on the backs of pages will not be graded!**

All written homework assignments will carry equal weight toward the homework component of each student's grade (see "Grades" below), with the single exception that *each student will have his or her lowest homework score dropped.*

Collaboration on homework assignments is permitted and encouraged, but **NO COPYING**. In other words, you should feel free to talk to other students while you are in the process of thinking about a problem. However, when it comes time to write up your solution, you should do this by yourself without outside assistance.

Exams: There will be three evening midterm exams during the semester as well as a cumulative final exam held during Common Exam Period III. The dates and times for the exams are as follows:

First Midterm Exam	February 6, 7:00 - 9:00 PM
Second Midterm Exam	March 1, 7:00 - 9:00 PM
Third Midterm Exam	April 3, 7:00 - 9:00 PM
Final Exam	May 5, 6:30 - 9:30 PM

Please note that all exam times are the same for both sections. The location of each exam will be announced later in the semester.

If you have a legitimate conflict with these exam times, please contact me as soon as possible. Please do not wait until shortly before the exam. Please be aware that **the final exam will not be given early to accommodate travel plans.**

No assistance of any kind is allowed on exams, except for resources that I may distribute with the tests. This means that the use of books, notes, calculators, computers, PDAs, cell phones, etc. will not be permitted during exams. The only things you need to bring with you on the day of any exam are a pencil, an eraser and a positive attitude.

Calculators: Calculators are a useful tool, and should you feel the need you may use them to check your answers to homework problems. Remember, though, that they will not be allowed during exams or the final, so do not become dependent on their use.

Grades: Your course grade will be based upon the scores on the homework, midterm exams, and the final exam as follows:

Homework	100 points
Midterm Exams (3)	100 points (each)
Final Exam	200 points
Total	600 points

Expectations: I expect each student to invest 2 to 3 hours of work and thought outside the classroom for every hour of lecture. Even though written work will only be collected once a week, **you are strongly encouraged to keep up with reading and problems as they are assigned.** I have no sympathy for students who routinely save all of their work for the night before it is due.

Outside Help: The Math Department sponsors free weekly calculus help sessions, usually beginning the second week of the semester, and also maintains a list of peer tutors. Additional information will be posted on the course web page as soon as it is available.

Academic Integrity: All students are covered by a policy that prohibits dishonesty in academic work. The Academic Integrity Policy (AIP) covers all students who entered Trinity before the fall of 2004. The Academic Honor Code covers all those who entered the fall of 2004 or later. The Integrity Policy and the Code share many features: each asserts that the academic community is based on honesty and trust; each contains the same violations; each provides for a procedure to determine if a violation has occurred and what the punishment will be; each provides for an appeal process. The main difference is that the faculty implements the AIP while the Code is implemented by the Academic Honor Council. Under the Integrity Policy, the faculty member determines whether a violation has occurred as well as the punishment for the violation (if any) within certain guidelines. Under the Code, a faculty member will (or a student may) report an alleged violation to the Academic Honor Council. It is the task of the Council to investigate, adjudicate, and assign a punishment within certain guidelines if a violation has been verified. Students who are under the Honor Code are required to pledge all written work that is submitted for a grade: “On my honor, I have neither given nor received any unauthorized assistance on this work” and their signature. The pledge may be abbreviated “pledged” with a signature.

Special Needs: If you have a documented disability and will need accommodations in this class, please speak with me privately early in the semester so I may be prepared to meet your needs. If you have not already registered with Disability Services for Students, contact the office at 999-7411. You must be registered with DSS before I can provide accommodations.