

Math 1312  
Calculus II

Fall 2013  
Dr. Ryan C. Daileda

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

**Office Hours and Contact Information:** Consult the course web page.

**Textbook:** *Calculus, Early Transcendentals* (seventh edition) by James Stewart

**Course Content:** Picking up where Calculus I left off, we will begin by studying various techniques of anti-differentiation, including integration by parts, trigonometric substitution and partial fraction decomposition. We will then move on to a survey of ordinary differential equations, focusing primarily on how to find solutions to linear and separable equations. A study of infinite series will follow, including convergence tests, power series and representations of functions by series (i.e. Taylor series). Finally, we will touch briefly on vector and matrix arithmetic and some applications.

**Homework:** Homework will be assigned daily and will consist of reading (yes, you are expected to read the textbook!) as well as problem solving. All assignments will be posted on the course homework web page. Written work will be assigned after lecture daily but collected only weekly, typically on the Wednesday following the day it is assigned. **Due dates will be clearly indicated on the course homework web page.** Late homework will not be accepted in the absence of divine intervention or matters of similar weight. **I reserve the right to penalize unexcused late work as I see fit.**

Assigned exercises will come in two varieties: **graded** and **practice**. Graded exercises are those whose solutions are to be written up (see guidelines below) and handed in on the specified due date. Your work on these exercises will be evaluated and returned to you. Practice exercises are intended to help direct your studying and give you an opportunity to refine your skills, and will be essential to your mastery of this course. You will find it very difficult to become proficient in Calculus (indeed, in *any* math course) if you do not spend a significant amount of time working through practice exercises. While **solutions to practice exercises are not to be turned in**, I fully expect every student to be able to successfully solve each practice exercise. In particular, **both graded and practice exercises are fair game for exam material.**

Graded homework exercises must be written **neatly**, and multiple pages should be stapled together **before** you come to class. 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. Unorganized, sloppy or illegible work 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 exception that **each student will have his or her lowest homework assignment score dropped.**

Collaboration on homework assignments is permitted and encouraged, and 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. In other words, **NO COPYING. Attempting to pass off the work of others (regardless of the source) as your own will be considered a violation of the honor code.**

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

<b>First Midterm Exam</b>	Wednesday, September 25, 7:30 - 9:00 PM
<b>Second Midterm Exam</b>	Monday, October 28, 7:30 - 9:00 PM
<b>Third Midterm Exam</b>	Wednesday, December 4, 7:30 - 9:00 PM
<b>Final Exam</b>	Friday, December 13, 12:00 - 3:00 PM

The locations of the exams will be announced in class and posted on the course web page. 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.

**Grades:** Your overall score in the course will be based upon your scores on the homework, midterm exams, and the final exam. The point values are as follows:

<b>Homework</b>	100 points
<b>Midterm Exams (3)</b>	100 points (each)
<b>Final Exam</b>	200 points
<b>Total</b>	600 points

So you can gauge your performance throughout the semester, a score distribution will be posted online following each exam.

**Expectations:** I expect each student to invest a significant amount of time and effort outside the classroom for every hour of lecture. To effectively study for this course it is essential that you **carefully read the assigned portions of the textbook and work through as many practice problems as possible**, as well as go over your lecture notes and turn in written assignments. Even though written work will not be collected daily, **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.

**Attendance:** Attendance is highly encouraged but is not mandatory. Roll will not be taken, but excessive absences should be explained to me.

**Classroom Decorum:** Please be respectful of your classmates and myself. Although I encourage everyone to ask me questions as needed, and would like to foster classroom discussion, talking or texting between students during a lecture can be extremely distracting and should be kept to a minimum. The 2.5 hours we spend in class each week should be dedicated to learning mathematics, and is not a forum for expressing general frustrations with the course. Please bring any such concerns directly to me during office hours.

**Technology:** Calculators and computers can be extremely useful tools in mathematics. I may occasionally assign homework problems that require the use of a computer algebra system, and you should feel free to use a calculator or computer to check your answers to homework problems in general. However, because calculators will not be allowed during exams, you should not become dependent on their use.

**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 it becomes available.

**Use of Previous Exams:** Students are permitted to obtain and study exams given in previous offerings of this course. However, **previous exams should not be used to judge the content or difficulty of the exams that will be given in this course.**

**Academic Integrity:** All students are covered by the Trinity University Honor Code that prohibits dishonesty in academic work. Under the Honor 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.

The specifics of the Honor Code, its underlying philosophy, and the norms for sanctioning can all be found on the Academic Honor Council website, accessed through the Trinity Homepage:

[http://www.trinity.edu/departments/academic\\_affairs/honor\\_code/](http://www.trinity.edu/departments/academic_affairs/honor_code/)

**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.