

Math 1312

Calculus II

Fall 2024
Dr. Ryan C. Daileda

Course URL: ramanujan.math.trinity.edu/rdaileda/calculus

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

e-Textbook: *Calculus, Early Transcendentals* (9th ed.) by James Stewart, available through WebAssign (see below).

WebAssign: Students taking this course are required to enroll in WebAssign, an online instructional system providing access to the e-textbook, online homework assignments, and other resources. To sign up visit webassign.com and use the class key provided to create your account.

Course Content: Advanced topics in the calculus of single variable, real-valued functions, including: integration techniques (volumes by cross sections and cylindrical shells, substitution, integration by parts, trigonometric integrals, trigonometric substitution, partial fractions, improper integrals); elementary ordinary differential equations (direction fields, separable ODEs, linear ODEs); and infinite series (convergence, geometric series, the integral test, comparison tests, alternating series, absolute convergence, the root and ratio tests, power series, Taylor expansions).

Learning Outcomes: This course fulfills the Quantitative Reasoning requirement of Trinity's Pathways Curriculum. Students who successfully complete this course will demonstrate the ability to: formulate and solve problems in a mathematical framework, communicate their results, and describe the significance and limitations of the quantitative approach.

Assignments: Homework assignments will be posted to WebAssign following each lecture and will consist of reading and problem solving. It is highly recommended that you complete the assigned reading before attempting to solve any problems.

All homework is to be completed prior to the beginning of the lecture following when it was assigned. Late homework may not be accepted and will be penalized as I see fit.

Collaboration on homework assignments is permitted and encouraged, and you are free to consult any individual or source that you find helpful. However, simply copying the work of another is unacceptable. 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 midterm exams during the semester as well as a cumulative final exam. The dates for the exams are as follows:

First Midterm Exam	September 25, 7–9pm
Second Midterm Exam	October 28, 7–9pm
Third Midterm Exam	December 4, 7–9pm
Final Exam	December 16, 3:30–6:30pm

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. Be aware that the final exam will not be given early.

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

Grades: Your overall score in the course will be based upon your scores on the homework, midterm exams, and the final exam. Each of these will be weighted as follows:

Homework	15 %
Midterm Exams (3)	20 % (each)
Final Exam	25 %

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

Calculators: Homework problems may occasionally require the use of a calculator, and you should feel free to use a calculator while completing homework assignments in general. The use of calculators will be permitted during exams, but is not required.

Use of ChatGPT or Other Generative AI: All assignments submitted for this course should reflect your own thinking and work. Any use of generative AI, such as but not limited to Chat GPT, will be considered “unauthorized assistance” and a violation of academic integrity and of the Trinity University Academic Integrity (Honor Code) discussed below.

Electronic Recording of Classroom Instruction: Please be aware that all classroom instruction, including student participation in classroom activities, is subject to recording and dissemination on the University’s secure course management system (Canvas). The recordings will be made available only to students enrolled in the course to facilitate online learning and review. Students are expressly prohibited from capturing or copying classroom recordings by any means; violations will be subject to disciplinary action. Instructors who wish to use a recording outside of class must obtain the written consent of any students who are personally identifiable in the recording.

Additional Information

Outside Help: The Quantitative Reasoning and Skills (QRS) Center provides “resources and support for quantitatively-demanding coursework,” and offers both in-person and virtual drop-in tutoring. For hours and additional information visit the QRS Center’s Homepage:

[https://www.trinity.edu/directory/departments-offices/
quantitative-reasoning-skills-center](https://www.trinity.edu/directory/departments-offices/quantitative-reasoning-skills-center)

Academic Integrity: All students are covered by the Trinity University Honor Code which 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 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:

<https://www.trinity.edu/academics/support/honor-council>

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 Student Accessibility Services, contact the office at 999-7411 or SAS@trinity.edu. You must be registered with SAS before I can provide accommodations.

Academic Support Resources: Trinity faculty hold students to the highest academic standards, but we also know that the very best students seek out help when necessary. To learn more about the resources that are in place to support your academic success, visit Trinity’s Academic Support Homepage:

<https://www.trinity.edu/directory/departments-offices/academic-support>

Title IX/Sexual Misconduct Reporting: As a Responsible Employee who is committed to creating an environment where every member of our community can thrive, I want to let you know that I am a Mandatory Reporter. What that means is that I am required to report any instances of sexual misconduct, including sexual harassment, non-consensual sexual intercourse, non-consensual sexual contact, sexual exploitation, intimate partner violence, stalking, and related retaliation that I am aware of to the Title IX Coordinator. So, if you share information with me about any incidents that implicate the Sexual Misconduct or Anti-Harassment Policies, I am required to report all information to the Title IX Coordinator to make sure you have information about support resources and complaint resolution options. My report does not initiate the complaint process, and you are in control over how you choose to engage with our Title IX Coordinator. If you or someone you know has experienced sexual misconduct, including sexual harassment, I encourage you to share this information directly with the Title IX Coordinator or one of the individuals who has been designated as a confidential resource on campus. Information about reporting is available here:

<https://www.trinity.edu/directory/departments-offices/equal-opportunity-services>

and information about supportive resources is available here:

[https://www.trinity.edu/directory/departments-offices/
equal-opportunity-services/resources](https://www.trinity.edu/directory/departments-offices/equal-opportunity-services/resources)