Math 1350
Calculus I
Summer 2025

MTWR, 10:45 am-1:25 pm in TBA
June 2–July 3
Instructor: Prof. Daniel Cuzzocreo
Email: daniel.cuzzocreo@georgetown.edu
Office: St. Mary's Hall 315C

The content of this syllabus is subject to change.
Updated March 19, 2025

Important Dates and Deadlines.

- **Final Exam: Thursday 7/3**
- **In-class Tests: Thursday 6/12, Thursday 6/26**
- **Quizzes in class each Tuesday and Thursday, except test/exam dates**
- **MyLab Homework due each Monday–Thursday at 11:59 pm**

Textbook Information. The text we will be using for the course is *Calculus Early Transcendentals: Single Variable. 3rd Ed.* with MyLab by Briggs, Cochran, Gillett, and Schulz. For this course, you must have access to the MyLab online homework system, which comes with access to the eText for the course. If you purchased access for a previous class that is valid throughout the term then you do not need to pay again. You do not need to purchase a physical copy of the text but you may do this if you wish. I recommend purchasing these materials with *one* of the following ISBNs:

- eText with 18-week MyLab access ISBN-13: 9780136679103
  Publisher Link

If you are unsure about whether you wish to take this course, you can obtain a 14 day free trial from the publisher Pearson before you need to purchase anything.

Course Description. This is a course in single-variable calculus. Our major topics will be functions, limits, derivatives, applications of derivatives, and an introduction to integration, and we'll explore these from both a computational and conceptual perspective. This means that for any given concept, we will learn not only to solve problems and obtain the correct answers, but also fully justify our methods in our own words and explain what's going on "under the hood" at each step. Thus we'll learn the mechanics of a variety of problem-solving techniques, as well as how to decide which technique to apply and why it works in any given situation.

This course covers a semester's worth of university-level mathematics material in 5 weeks. This course will move VERY QUICKLY. We will typically cover about two textbook sections each class day. You are expected to attend class each day, and you MUST complete homework and quizzes on time. Missing even one day of class or one assignment could cause you to immediately fall behind in the course, with detrimental results. It is your responsibility to put sufficient time in outside of class to keep up with homework, reading the textbook, and

reviewing your class notes to solidify your understanding of course material. It is also your responsibility to reach out to me or meet with me during office hours if you find yourself struggling in the course.

Learning Objectives. By the end of Math 1350, students will be able to:

(1) Manipulate and evaluate expressions containing polynomial, rational, exponential, logarithmic, trigonometric, and inverse trigonometric functions.
(2) Analyze and sketch the graphs of such functions.
(3) Evaluate limits of functions using algebraic manipulation, continuity, and the squeeze theorem.
(4) Compute derivatives of any given function which is built from elementary functions, using basic differentiation rules, the product and quotient rules, the chain rule, and implicit and logarithmic differentiation.
(5) Exploit the relationships between derivatives, tangent lines, and rates of change to solve basic problems involving functional approximation.
(6) Apply differentiation concepts to solve real-world problems involving rates of change, related rates, optimization, and more.
(7) Use L'Hospital's Rule and Newton's Method to solve pure mathematical problems involving limits and roots of equations.
(8) Sketch reasonably accurate graphs of any given function without the use of technology, using information from derivatives and limits.
(9) Compute antiderivatives of given functions and evaluate basic definite integrals using both Riemann sums and the Fundamental Theorem of Calculus.
(10) Write basic mathematical arguments that apply some of the major definitions and theorems of differential calculus.

Grading Policy. Your grade will be determined according to whichever of the following schemes results in a higher score:

Scheme A:

Assessment	**Percentage**
Final Exam	36%
Two Midterm Tests	36% (18 % each)
MyLab (Online) Homework	18%
Quizzes	10%

Scheme B:

Assessment	**Percentage**
Final Exam	48%
Best Midterm Test	24%
MyLab (Online) Homework	18%
Quizzes	10%

Scheme B will be used to drop a test if you do not perform as well as you would have hoped, or if you need to miss a test for any reason.

MyLab (Online) Homework. You will have online homework assignments through MyLab. Note that the assignments are organized by textbook section, and so there may be multiple assignments per lecture. The assignments on MyLab are typically due on the following schedule:

- Monday lecture assignments due the following Tuesday at 11:59 PM.
- Tuesday lecture assignments due the following Wednesday at 11:59 PM.
- Wednesday lecture assignments due the following Thursday at 11:59 PM.
- Thursday lecture assignments due the following Monday at 11:59 PM.

The assignments may occasionally deviate from this schedule, and it is your responsibility to check the due dates of all assignments in Canvas/MyLab.

Be sure to always access MyLab through the tab on Canvas. This will ensure that your MyLab scores sync to the Canvas gradebook properly.

MyLab might be busy during high traffic hours, so be advised that you should finish your MyLab assignment well before the deadline.

Tests. There will be two midterm tests, and a final exam, taken during class time.

TEST I: THURSDAY 6/12
TEST II: THURSDAY 6/26
FINAL EXAM: THURSDAY 7/3 10:45 am– 1:25 pm

These tests are required course meetings, and students registered for this course must attend these as scheduled. The use of books, notes, phones, computers, laptops, tablets, or calculators on exams and quizzes is prohibited. More information about exam content and policies will be communicated before each exam.
There are no makeup examinations. Students who arrive after an exam has begun will have only the time remaining in the exam period to complete the exam. See policies below regarding missed exams.

Missed Deadlines and Conflicts. All dates of exams, quizzes, and assignment deadlines for the entire quarter will be contained on Canvas. It is your responsibility to know these dates, to be present in class for exams, and to turn in assignments on time. No makeup exams will be given. However, mistakes happen and conflicts arise. So that such incidents do not have a detrimental affect on your course grade, the following policies will be in place. Please read them carefully, as **no exceptions** will typically be made.

- **MyLab Homework**: You can receive one free 36 hour extension on MyLab assignment, covering all assignments with the same due date. Email me ASAP after the deadline. No MyLab assignments will be dropped.
- **Quizzes**: Your lowest quiz score will be dropped.

- **Tests**: If you miss one exam, then that exam score will be dropped and your final grade will be computed according to Scheme B in the Grading Policy section above. No makeup exams will be given.
- Due to the very fast pace and shortened schedule of the summer session, exceptions to these policies will not be made. In the event of extreme personal circumstances that result in missing a substantial amount of class time or coursework, you should speak with me personally, but it may not be possible to make up the missed work within the timeline of the course, and you may need to withdraw from the class.

Expectations. This course will be *very* fast-paced. You should expect to put in significant work outside of class to read the textbook, review material from lecture, and fill in gaps, not just work on homework problems. During class, you should engage actively in what we're learning; in particular, think critically as we go about what we're doing, and don't be afraid to ask questions. It will be very important to keep up with homework assignments. Reading along the sections we are covering in the textbook is highly recommended.

Please arrive to class each day on time, and ready to contribute. Please also keep phones silent and out of sight during class. You may use a tablet for note-taking in class but **laptops should not be used during lecture** unless instructed.

Academic Integrity. By taking this class, you assume responsibility towards following the policies of Georgetown University's Honor System. If you cheat in this class (e.g. using assistance of any form on exams, presenting someone else's work as your own), you risk failing the course.

Accessibility. It is my job to provide all students with an accessible and inclusive learning environment. Some aspects of this course, the assignments, the in-class activities, and the way the course is usually taught may be modified to facilitate your participation and progress. As soon as you make me aware of your needs, we can work with the Academic Resource Center to determine appropriate accommodations. Any information you provide is private and confidential, and will be treated as such.

Title IX and and Sexual Misconduct. Georgetown University and its faculty and staff are committed to supporting survivors and those impacted by sexual misconduct, which includes sexual assault, sexual harassment, relationship violence, and stalking. Georgetown requires faculty members, unless otherwise designated as confidential, to report all disclosures of sexual misconduct to the University Title IX Coordinator or a Deputy Title IX Coordinator. If you disclose an incident of sexual misconduct to a professor or staff member in or outside of the classroom (with the exception of disclosures in papers), that faculty or staff member must report the incident to the Title IX Coordinator, or Deputy Title IX Coordinator. The coordinator will, in turn, reach out to the student to provide support, resources, and the option to meet. Please note that the student is not required to meet with the Title IX coordinator and no action will be taken without the student's awareness. More information about reporting options and resources can be found on the Sexual Misconduct

Website: https://sexualassault.georgetown.edu/resourcecenter.

If you would prefer to speak to someone confidentially, Georgetown has a number of fully confidential professional resources that can provide support and assistance. These resources include:

- Health Education Services: Sexual Assault Response and Prevention: sarp@georgetown.edu
- Counseling and Psychiatric Services (CAPS): 202.687.6985

Additional resources are included below:

- Georgetown Self-Care Resource Guide: https://studenthealth.georgetown.edu/health-promotion/self-care/
- Georgetown Wellness Wheel: https://studenthealth.georgetown.edu/hoya-wellness-wheel/
- Georgetown Guide to Recognizing Students in Distress: https://studentaffairs.georgetown.edu/studentoutreach/facultystaffresources/

Pregnancy Modifications and Adjustments. Georgetown University is committed to creating an accessible and inclusive environment for pregnant students. At any point throughout their pregnancy students may request adjustments/modifications based on general pregnancy needs or accommodations based on a pregnancy-related complication or medical need. Students may also request accommodations following labor and delivery based on a complication or medical need.

To request pregnancy modifications, please complete the SCS Pregnancy Modification Request Form: https://forms.gle/ZBfASxui7u13A8TU6

More information about pregnancy modifications can be found on the Title IX Georgetown University Website: https://titleix.georgetown.edu/title-ix-pregnancy/student-pregnancy/