MATH 1710.120 CALCULUS I (Fall 2025)

Instructor Contact

Name: Ralf Schmidt
Course Meets: MWF 12:00 – 12:50, CURY 103
Office Hours: W 2-4
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Communication Expectations: If you need to contact me, please send me e-mail from your UNT e-mail account. I will answer within one business day.

Course Description

Calculus I is the study of limits and continuity, derivatives, and integrals. The class will cover differentiation and integration of polynomial, rational, trigonometric, and algebraic functions as well as applications, including slope, velocity, extrema, area, volume, and work, and will provide preparation for students in STEM majors.

Required Text/Materials

Cengage WebAssign: WebAssign is an online course delivery platform accessed directly through Canvas. WebAssign access includes all online homework assignments, the e-text of *Calculus 9th Edition*, by James Stewart, and additional learning resources. Use the link in Canvas to register **immediately**. You must register in WebAssign by the 2nd class day of the semester.

The textbook is Stewart, James, *Calculus*, *9th* Edition. It is available online through WebAssign platform. WebAssign grants a no-cost temporary 14-day access, starting the first day of the course (not the first day you activate). You must purchase your access before the temporary access expires. If you do not make the purchase before the trial period ends, you may lose credit for all work previously completed.

Grading

Homework (WebAssign) – 14%
Calculus Readiness Assignment – 5%
Quizzes (Recitation) – 14%
Midterm Exams – 51%
Final Exam – 16%

Late work will not be accepted in this course regardless of the reason.

Letter Grades:

- A: 90-100% (Outstanding, excellent work. The student performs well above the minimum criteria.)
- B: 80-89% (Good, impressive work. The student performs above the minimum criteria.)
- C: 70-79% (Solid, college-level work. The student meets the criteria of the assignment.)
- D: 60-69% (Below average work. The student fails to meet the minimum criteria.)
- F: 59 and below (Sub-par work. The student fails to complete the assignment.)

Course Structure

This course will meet in person 3 times per week for lecture and 2 times per week for recitation. There will be regular homework, 3 midterm exams, 1 final, and quizzes and/or activities during recitation.

Homework

Each week there will be homework on WebAssign for the sections covered that week. The homework due dates will allow for ample time should the unexpected happen, but ideally you should be completing the homework as you go through the module during the week. Keep in mind you will have to check WebAssign frequently to keep up with the due dates, as there will not be reminders in Canvas. Your lowest three (3) homework scores will be dropped.

Quizzes

There will also be a quiz or activity each week in recitation covering the material from the prior week. Your lowest two (2) quiz scores will be dropped.

Calculus Readiness

During the first three weeks of the semester, you will need to complete a somewhat lengthy review assignment in WebAssign. This assignment goes over the main topics from Precalculus to make sure you are prepared for this (and future classes). You will have 100 attempts on each question, so that you have ample opportunity to review and get it right. This assignment is 5% of your grade.

Exams

There will be 3 midterm exams administered in person during lecture. There are NO remote/online options for exams.

If you miss an exam, you receive a zero for that exam. There are no make-up exams. However, your lowest midterm exam grade (including a zero from a missed exam) may be replaced by your score on the final exam if it is higher.

During exams, there will be no books, notes, calculators, phones, or electronic gadgets of any kind.

Recitation

The recitations for this course:

- MATH 1710.121: TR 11:00 – 11:50, PHYS 112 (Brandon Mather)
- MATH 1710.122: TR 12:00 – 12:50, PHYS 112 (Tommie Settlemyre)
- MATH 1710.123: TR 1:00 – 1:50, MATT 109 (Tommie Settlemyre)

You will receive additional instruction by the Teaching Assistant (TA) in your recitation section. The TA will work additional examples (with student input) and answer homework questions or other questions related to the material. The TA will also administer short quizzes or activities on the material. The TA will not repeat full lectures on a topic.

Attendance

Attendance is important and required. In this class, this means looking alive in class and working through the examples in lecture and recitation as we go. The instructor will not repeat whole lectures or offer personal lessons in office hours or email; these venues are for specific questions / problems. Take notes in class, as there will be no distributed notes or recordings. It is your responsibility to catch all announcements made in class.

Course Prerequisites or Other Restrictions

- A grade of C or higher in MATH 1650.
- A willingness to put in several hours of work each week to absorb the material in each module. In math courses, especially this one, the content will build upon itself making it very difficult to catch up if you fall behind.

Course Objectives

Upon successful completion of this course, learners will be able to:

- Develop solutions for tangent and area problems using the concepts of limits, derivatives, and integrals.
- Create graphs of functions considering limits, continuity, and differentiability at a point.
- Determine whether a function is continuous and/or differentiable at a point using limits.
- Use differentiation rules to differentiate functions.
- Identify appropriate calculus concepts and techniques to provide mathematical modules of real-world situations and determine solutions to applied problems.
- Evaluate definite integrals using the Fundamental Theorem of Calculus.
- Articulate the relations between derivatives and integrals using the Fundamental Theorem of Calculus.
- Determine the area between curves using integration techniques.
- Determine the volume generated by rotating a curve about an axis.

Technical Requirements & Skills

Minimum Technology Requirements

- Access to a computer, tablet, or laptop that is compatible with all required apps for the course.
- Access to reliable internet.
- A scientific or basic graphing calculator (TI-84 or equivalent) is recommended.

Technical Skills & Digital Literacy

- Navigate Canvas and WebAssign
- Scan documents and create pdf files (there are several free scanning apps for phones / tablets like Adobe Scan or Office Lens). Moreover, both the Notes app for iOS and Google Drive app on Android should be built-in and come with scanning functionality:

Using Notes for iOS
Using Google Drive on Android

- Upload documents to Canvas.
- Complete assignments on WebAssign

Extra Help

Additional help is available through:

UNT Math Lab: The Math Lab is a walk-in tutoring lab that provides free math tutoring for students enrolled in an undergraduate College of Science course at UNT. The Math Lab is staffed by mathematics graduate students and undergraduate students with a passion for math. Math Lab tutors answer specific questions, check that you are approaching a concept correctly, work with and offer alternative problems, and help clarify concepts. Check out all that the Math Lab has to offer by stopping by at Sage Hall 130 or checking it out online at UNT Math Lab.

UNT Tutoring Services: The Learning Center offer a variety of tutoring services designed to help you succeed at UNT. The tutors there answer specific questions, check that you are approaching a concept correctly, work with and offer alternative problems, and help clarify concepts. Please note, The Learning Center's Tutoring Services will not work on homework or assignment problems for you, check assignment answers, assist with take-home quizzes or essays, or repeat class lectures. Schedule an in-person or online appointment with a Lead Tutor who will help you navigate course content. For more information check UNT Tutoring Services.

Schedule

I reserve the right to change this schedule as necessary throughout the semester. You are still responsible for being aware of any changes I announce in class even if you were not present.

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8/18 1.4	8/19	8/20 1.5	8/21	8/22 1.6
8/25 1.7	8/26	8/27 1.8	8/28	8/29 1.8
9/1 **Labor Day – No class**	9/2	9/3 2.1	9/4	9/5 2.2

9/8 2.3	9/9	9/10 2.3	9/11	9/12 2.4
9/15 2.5	9/16	9/17 Review	9/18	9/19 **Exam1**
9/22 2.6	9/23	9/24 2.7	9/25	9/26 2.9
9/29 3.1	9/30	10/1 3.2	10/2	10/3 3.3
10/6 3.3	10/7	10/8 3.4	10/9	10/10 3.4
10/13 3.5	10/14	10/15 Review	10/16	10/17 **Exam 2**
10/20 3.7	10/21	10/22 3.9	10/23	10/24 4.1
10/27 4.1	10/28	10/29 4.2	10/30	10/31 4.3
11/3 4.4	11/4	11/5 4.5	11/6	11/7 (**Last day to drop with a grade of W)** 4.5
11/10	11/11	11/12	11/13	11/14

5.1		Review		**Exam 3**
11/17 5.1	11/18	11/19 5.2	11/20	11/21 5.3
11/24 **Thanksgiving Break**	11/25 **Thanksgiving Break**	11/26 **Thanksgiving Break**	11/27 **Thanksgiving Break**	11/28 **Thanksgiving Break**
12/1 5.3	12/2	12/3 Review	12/4	12/5 **Reading day (No class)**
12/8 5.3	12/9	12/10 **Final Exam** 10:30 – 12:30 CURY 103	12/11	12/12

Summary of Key Dates – Fall 2025:

August 18, Monday
Classes begin.

August 22, Friday
Last day to add/swap a class.

August 29, Friday
Last day to drop a course without a W

September 26, Friday
Last day to change to pass/no pass

November 7, Friday
Last day for a student to drop a course or all courses with a grade of W

November 8, Saturday
Beginning this date, a student may request a grade of "I", incomplete, a non-punitive grade given only if a student (1) is passing, (2) has justifiable reason why the work cannot be completed on schedule; and (3) arranges with the instructor to

complete the work.

December 5, Friday
Reading day; no class

December 6, Saturday – December 12, Friday
Final examinations. Terms ends.

Welcome to UNT!

As members of the UNT community, we have all made a commitment to be part of an institution that respects and values the identities of the students and employees with whom we interact. UNT does not tolerate identity-based discrimination, harassment, and retaliation. UNT's full Non-Discrimination Policy can be found in the UNT Policies section of the syllabus.

Online Course System

The University is committed to providing a reliable online course system to all users. However, part of working in the online environment involves dealing with the inconveniences and frustration that can arise when technology breaks down or does not perform as expected. Here at UNT we have a Student Help Desk that you can contact for help with Canvas or other technology issues.

UIT Help Desk: UIT Student Help Desk site (https://www.unt.edu/helpdesk)
Email: helpdesk@unt.edu
Phone: 940-565-2324
In Person: Sage Hall, Room 130
Walk-In Availability: 8am-9pm
Telephone Availability:

- Sunday: noon-midnight
- Monday-Thursday: 8am-midnight
- Friday: 8am-8pm
- Saturday: 9am-5pm

Laptop Checkout: 8am-7pm

For additional support, visit Canvas Technical Help (https://community.canvaslms.com/docs/DOC-10554-4212710328)

UNT Policies

Academic Integrity Policy

According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

ADA Accommodation Statement

UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their

eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one's specific course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the ODA website.

Emergency Notification & Procedures

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Canvas for contingency plans for covering course materials.

Acceptable Student Behavior

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. Visit UNT's Code of Student Conduct to learn more.