

# 2026 Spring MATH 1710.420/Calculus I

## January 12 – May 8

### Instructor Information

**Name:** Kyranna Kioulafa

**Office Location:** GAB 413

**Office Hours:** office hours will be on zoom by appointment. Email me to schedule times.

Office hours offer you an opportunity to ask for clarification and to find support with understanding class material. I encourage you to connect with me! If my hours conflict with your schedule, we can schedule a mutually convenience time, just ask. Your learning success is our goal.

**Communication Expectations:** Canvas Inbox preferred; my email: Kyranna.Kioulafa@unt.edu I typically respond in one (1) business day, during business hours. A message received after business hours is considered received the next business day. My inbox becomes rather full, if you contact me and do not receive a reply from me within one (1) business day, please send a follow-up. A gentle nudge is always appreciated.

Your communication with me and your classmates should be in line with [UNT's General Online Communication Guidelines](#).

### Course Description

4 hours. Limits and continuity, derivatives, and integrals; differentiation and integration of polynomial, rational, trigonometric, and algebraic functions; applications, including slope, velocity, extrema, area, volume, and work.

### Course Prerequisites or Other Restrictions

- Officially, the prerequisite is a grade of C or higher in [MATH 1650](#); or grade of C or higher in both [MATH 1600](#) and [MATH 1610](#).
- A willingness to put in necessary hours of work each week to absorb each the material in each module. In math courses, especially this one, the content will build upon itself making it difficult to catch up if you fall behind.

### Course Structure - INET

This course takes place 100% asynchronously online. Information on how to be successful in a remote learning environment can be found at [UNT Online](#) (<https://online.unt.edu/learn>). **Except for virtual sessions**, your interactions with me and your fellow students will take place on Canvas.

This course begins with the first content module on Canvas open. I will open subsequent modules about one week before they begin. This course has four (4) content modules. Module, chapter, and unit are used interchangeably.

In each content module, you will find student lecture notes templates that correspond to instructional videos. The lesson videos present instruction and solutions to examples. Print the student notes and fill in the blanks as you watch the videos. This is how you “attend class.”

## 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 relationship 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; and
- Compute the average value of a function by integration.

## Required Course Material

### Cengage WebAssign Requirement

This course requires the **purchase** of access to Cengage WebAssign, the online platform that hosts the majority of your homework, an interactive e-text, and additional course resources.

WebAssign includes:

- Homework assignments for each content module
- The e-text of *Calculus 9<sup>th</sup> Edition* Stewart, James, Clegg, Daniel, and Watson, Saleem *Calculus, 9th Edition*, Cengage Learning (2021).
- Additional learning resources

You will register for Cengage WebAssign through the Cengage link in Canvas (left-hand navigation). Please use **one account** and register with your official UNT name, as credit cannot be awarded for work submitted under a different name or multiple accounts.

**Deadline:** Register by the second day of the term. See the Start Here module in Canvas for full instructions.

**Trial Access:** If needed, you may begin with a 14-day no-cost trial if you have not previously used this option for this course. Be sure to purchase full access before the trial ends to avoid losing progress or credit for completed work. The 14-days begin the first official day of the term. See [WebAssign Student Information](#).

### Textbook

An e-version of the textbook is included in the WebAssign platform. It is available online through the WebAssign platform.

### Calculator

Many calculators are sufficient for the exams in this class. Acceptable options include the: TI-30XIIS, TI-36, TI-83, or TI-84 (or similar Casio, other manufacturer's calculators). Instructional support is provided for the TI's.

Utilities with alphanumeric/CAS capabilities or have the ability to connect to the internet are NOT acceptable, neither are business analyst calculators. Not acceptable examples include the: TI-Nspire, TI 89, TI 92, TI BAII Plus, and smartphones and smart watches.

## Technology

- Computer, tablet, or laptop that is compatible with all required apps for the course.
- A smartphone *is not* sufficient.
- Reliable internet access.
- Webcam and microphone for proctored tests.
- [Canvas Technical Requirements](https://clear.unt.edu/supported-technologies/canvas/requirements) (<https://clear.unt.edu/supported-technologies/canvas/requirements>)
- A printer.

## Course Evaluation

Evaluation components include homework, midterm exams, and the final exam. Descriptions of each component are provided on this page.

**Homework (WebAssign) – 15%**

**Calculus Readiness Prerequisite Diagnostic (WebAssign) – 5%**

**Recitation (Quizzes)– 12%**

**Midterm Exams – 48%**

**Final Exam – 20%**

**Engagement Tasks (Discussions, Orientation assignments) – 2%**

## Your Course Grade

Your grades will be posted in Canvas Grades.

- A: [90, 100+), Outstanding, excellent work. The student performs well above the minimum criteria.
- B: [80, 90), Good, impressive work. The student performs above the minimum criteria.
- C: [70, 80), Solid, college-level work. The student performance meets the minimum criteria.
- D: [60, 70), Below average work. The student performs below the minimum criteria.
- F: [0, 60), Sub-par work. The student performs well below the minimum criteria.

Your course grade is determined solely by your performance on the graded items. I do not grade on a *curve* nor offer *extra credit*, as that would be a comparison of your outcomes to others. I encourage you to find opportunities to learn with and through others. Explore [Navigate's Study Buddy](https://navigate.unt.edu) (<https://navigate.unt.edu>) tool to join study groups. Maximize your learning with our coaching staff at the [Learning Center](#). Focus on areas where you are struggling in this course by connecting with me during my office hours or utilizing the [UNT Math Tutor Lab](#). Forward together!

## Course Components

### Homework – You Learn by Practice!

The primary purpose of homework is to provide you with opportunities to learn, practice, and retain new content. To that end, you will homework, WebAssign and other online due each week. For your convenience, all coursework is accessed directly on Canvas. Have a dedicated notebook for your math homework. Write to show all work, including the steps on how to approach the exercises.

*Getting Familiar with WA* WebAssign homework is due the second day of the term. Under the Weekly Modules subheading of the syllabus, you will see assignments due that day. Note that you have, on average, three WebAssign homework tasks per week. The recommended date for homework assignments are in the title of the assignment. Starting the 2<sup>nd</sup> week, homework from the previous week will be due by 11:59 PM on Monday of the following week (official due date). For instance, in Week 1 we cover 1.4 and 1.5, you have until 11:59 PM of week 2 to complete them. This is to give ample time and flexibility should the unexpected happen, but ideally you should be completing the homework as you go through the module during the week. To provide an incentive, you

will receive a **5% bonus for any work on WebAssign homework completed more than 48 hours before the 11:59 PM Monday deadline**. You will have to check WebAssign frequently to keep up with the due dates. **Your lowest three (3) WebAssign homework scores will be dropped.**

## Calculus Readiness Diagnostic

**During the first two weeks of the semester**, you will need to complete a somewhat lengthy Precalculus review assignment. It is the *Calculus Readiness Diagnostic* assignment in WebAssign. This assignment is an overview of the main topics from Precalculus to make sure that you are prepared for this and future classes. You have 100 attempts on each question, that's a lot of opportunities to review, revisit, refresh, and if needed, relearn key prerequisite material. Because this assignment is all prerequisite content, you should complete this right away, well before the due date. This assignment is 5% of your course grade.

## Quizzes

You will have weekly quizzes on Canvas. The quizzes require Respondus Lockdown Monitor. The quizzes are available from Friday of the week of the quiz through Monday, 11:59 PM the following week. You should complete the homework before you attempt the quiz. The quizzes are timed and must be completed in one setting. **Two (2) lowest quiz scores will be dropped.**

## Weekly Worksheet

You will have weekly worksheets to submit on Canvas. The worksheets provide you with the very important opportunity to learn how to construct and present mathematical work. The worksheets are released on the same schedule as the Weekly modules of lecture and are due Monday, 11:59 PM the following week. You should work on the worksheet problems in tandem with your WebAssign homework. **Completing the Worksheet will provide extra points added to your exams.**

## Engagement Tasks

Engagement tasks are orientation assignments and discussion posts. The discussion assignments are designed to keep you connected with your classmates.

## Exams

**You have** five (5) exams: **Four (4) midterm exams and a final exam**. Content questions are not answered on exam days.

Exam 1 – Thursday, Feb 5 Content: 1.4 – 1.8, 2.1, 2.2

Exam 2 – Thursday, Feb 26 Content: 2.3 – 2.9

Exam 3 – Thursday, Mar 24 Content: 3.1 – 3.8, not 3.6

Exam 4 – Thursday, Apr 16 Content: 3.9, 4.1 – 4.5, 5.1 – 5.3

Final Exam – **Monday May 4<sup>th</sup>** –. The final exam is mandatory and comprehensive. **The lowest midterm exam grade will be dropped!**

**This course does not accept late work regardless of the reason.**

## Changes to Syllabus

Changes made to the syllabus will be announced in class and posted as an Announcement on Canvas.

## Course Schedule

All course assignments are due 11:59 PM of the posted due date. Do your learning coursework (print notes, watch video and complete, review notes, read textbook) several days before the posted due dates. That is, *do* your coursework before the assignment is *due*.



### Week 1

1/12/2026

1/13/2026

1/14/2026

1/15/2026

1/16/2026

#### **Getting Familiar with WA**

Start the [Calculus Readiness Prerequisite Diagnostics](#) right away!

#### **1.4 Tangent and Velocity Problems**

Discussion: Introduce Yourself

#### **1.5 The Limit of a Function, Quiz 1**



### Week 2

1/19/2026

1/20/2026

1/21/2026

1/22/2026

1/23/2026

#### **1.6 Calculating Limits using Limit Laws**

#### **1.7 The Precise Definition of a Limit, Quiz 2**



### Week 3

1/26/2026

1/27/2026

1/28/2026

1/29/2026

1/30/2026

#### **1.8 Continuity**

#### **2.1 The Derivative and the Rate of Change**

#### **2.2 The Derivative as a Function, Quiz 3**



### Week 4

2/2/2026

2/3/2026

2/4/2026

2/5/2026

2/6/2026

Discussion 1

#### **Exam 1 (8 AM – 11:59 PM)**

#### **2.3 Differentiation Formulas, Quiz 4**



### Week 5

2/9/2026

2/10/2026

2/11/2026

2/12/2026

2/13/2026

#### **2.4 Derivatives of Trigonometric Functions**

#### **2.5 The Chain Rule**

#### **2.6 Implicit Differentiation, Quiz 5**



### Week 6

2/16/2026

2/17/2026

2/18/2026

2/19/2026

2/20/2026

#### **2.8 Related Rates**

#### **2.9 Linear Approximation and Differentials, Quiz 6**



## Week 7

2/23/2026

2/24/2026

2/25/2026

2/26/2026

2/27/2026

Discussion 2

### Exam 2 (8 AM – 11:59 PM)

**3.1 Maximum and Minimum Values, Quiz 7**



## Week 8

3/2/2026

3/3/2026

3/4/2026

3/5/2026

3/6/2026

**3.2 The Mean Value Theorem**

**3.3 How Derivatives Affect the Shape of the Graph**

**3.4 Limits at Infinity; Horizontal Asymptotes, Quiz 8**

Spring Break March 9 – 15



## Week 9

3/16/2026

3/17/2026

3/18/2026

3/19/2026

3/20/2026

**3.5 Summary of Curve Sketching**

**3.7 Optimization Problems**

**3.8 Newton's Method, Quiz 9**



## Week 10

3/21/2026

3/22/2026

3/23/2026

3/24/2026

3/25/2026

Discussion 3

### Exam 3 (8 AM – 11:59 PM)

**3.9 Antiderivatives, Quiz 10**



## Week 11

3/30/2026

3/31/2026

4/1/2026

4/2/2026

4/3/2026

**4.1 Areas and Distances**

**4.2 The Definite Integral**

**4.3 The Fundamental Theorem of Calculus, Quiz 11**



## Week 12

4/6/2026

4/7/2026

4/8/2026

4/9/2026

4/10/2026

**4.4 Indefinite Integrals & Net Change Theorem**

**4.5 The Substitution Rule**

**5.1 Areas Between Curves, Quiz 12**



## Week 13

4/13/2026	
4/14/2026	Discussion 4
4/15/2026	
4/16/2026	<b>Exam 4 (8 AM – 11:59 PM)</b>
4/17/2026	<b>5.2 Volumes, Quiz 13</b>



## Week 14

4/20/2026	<b>5.3 Volumes by Cylindrical Shells</b>
4/21/2026	
4/22/2026	<b>5.5 Average Value of a Function</b>
4/23/2026	
4/24/2026	Quiz 14



## Week 15

4/27/2026	
4/28/2026	<b>Calculus I (Final Exam) Review</b>
4/29/2026	Reading Day
4/30/2026	Reading Day
5/1/2026	Pre-Finals Day, no classes

## Final Exams Week

5/4/2026	<b>FINAL EXAM (8 AM – 11:59 PM)</b>
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## Course Policies

### Academic Integrity

Cheating will not be tolerated. Any student found cheating on will receive a zero on that assignment; and may receive an F for the course for cheating on an exam. A report will be filed with the [Office of Academic Integrity](#).

### Attendance

Research has shown that students who attend class are more likely to be successful. In an online class attendance means regularly completing the student lecture notes as you watch the instructional videos. **It is assumed you will do this.** The instructor will not repeat whole lectures or offer personal lessons in office hours or email. These venues are for specific questions/problems.

In an online course, you have the flexibility to work ahead. For any due date conflict, work ahead. For exams, schedule with me to take it prior to the posted exam date.

### Examination Policy

Exams will be administered in Canvas with Respondus Lockdown Browser and will be available during the posted exam period. **Exams not submitted by 11:59 PM receive a zero**, regardless of when you begin the exam. You may access Exams through the *Syllabus* tab on the left side of the Canvas navigation menu, or the content module.

If you **miss an exam, you receive a zero for that exam**. There are **no make-up exams**. However, if you have a [university excused absence](#), according to [06.039 Policy](#), and provide me documentation within 2 business days of the missed exam, then the zero may be replaced with your final exam grade (this includes missing an exam due to illness/covid-19).

## Early Exam

If you have a conflict with a scheduled exam date, you may request to take your exam early. The request must be sent to Canvas Inbox one week prior to your desired early exam date.

## Exam Protocol

- Read How to Take Exam with Respondus module in Canvas.
- Clear your test-taking environment and show clean desk surface to webcam.
- Once opened you have 60 minutes to complete the exam. You will have more time for the final exam.
- Do not open the exam unless you are prepared to take the test, and your technology is ready, and in working order.
- No extra time nor re-do's will be granted to account for technical difficulties.
- Work is NOT accepted through email.
- You will be required to complete the problems on your own paper and show your work to the webcam screen. NO VALID WORK, NO CREDIT, NO EXCEPTIONS.

You will be able to see your exam grade on Canvas about one (1) week after the exam. You may ask me to go over exam problems with you. However, all decisions on credit are final and not open for discussion.

## Late Work Policy

UNT is a community of dreamers and doers who pursue excellence in everything. With that in mind, there are standards and expectations set for the class, which include that work will be completed and submitted by the posted due date. Late work is not accepted.

There will be no late exams or retakes. If an exam is missed, a grade of zero is recorded. See the Examination Policy for more information.

## Student Support Services & Assistance

### Academic Support & Student Services

UNT strives to offer you a high-quality education and a supportive environment, so you learn and grow. As a faculty member, I am committed to helping you be successful as a student. To learn more about campus resources and information on how you can be successful at UNT, go to [Succeed at UNT](#) (unt.edu/success) and explore the many links at [Wellness at UNT](#) (unt.edu/wellness). To get all your enrollment and student financial-related questions answered, go to [Integrated Student Services](#) (scrappysays.unt.edu).

### Technical Assistance for 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.

Visit the UIT Help Desk website for their current support hours. Website link, email, phone number, and office location provided as follows:

**UIT Help Desk:** [UIT Student Help Desk](http://www.unt.edu/helpdesk/index.htm) (<http://www.unt.edu/helpdesk/index.htm>)

**Email:** [helpdesk@unt.edu](mailto:helpdesk@unt.edu)

**Phone:** 940-565-2324

**In Person:** Sage Hall, Room 330

**Canvas Technical Requirements:** [Canvas Technical Requirements](#)

(<https://clear.unt.edu/supported-technologies/canvas/requirements>)

**Additional Canvas Support:** [Canvas Technical Help](#)

(<https://community.canvaslms.com/docs/DOC-10554-4212710328>)

## 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 Policies

### Academic Integrity Standards and Consequences. 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.

Every student in my class can improve by attending class, consistently doing their own work, and accessing appropriate resources. [Academic Integrity Policy](#) violations will not. Read and follow this important set of guidelines for your academic success.

### ADA Accommodation Statement

UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Access (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 [Office of Disability Access](#) website. (<https://disability.unt.edu/>).

### Access to Information - Eagle Connect

Students' access point for business and academic services at UNT is located at: [my.unt.edu](http://my.unt.edu). All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail [Eagle Connect](#) (<https://it.unt.edu/eagleconnect>).

### Emergency Notification and Procedures

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency. In the event of a university closure, please refer to the UNT Learning Management System, Canvas, for contingency plans for covering course materials.

## Student Evaluation Administration Dates

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during weeks 13, 14 and 15 of the long semesters to provide students with an opportunity to evaluate how this course is taught. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" ([no-reply@iasystem.org](mailto:no-reply@iasystem.org)) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students complete the survey, they will receive a confirmation email that the survey has been submitted. For additional information, please visit the [SPOT website](http://spot.unt.edu/) (<http://spot.unt.edu/>) or email [spot@unt.edu](mailto:spot@unt.edu).

## Important Notice for F-1 Students taking Distance Education Courses

Federal regulations state that students may apply only 3 fully-online semester credit hours (SCH) to the hours required for full-time status for [F-1 Visa \(PDF\)](#) holders. Full-time status for F-1 Visa students is 12 hours for undergraduates and 9 hours for graduate students.

## Student Verification

UNT takes measures to protect the integrity of educational credentials awarded to students enrolled in distance education courses by verifying student identity, protecting student privacy, and notifying students of any special meeting times/locations or additional charges associated with student identity verification in distance education courses. See [Student Identity Verification Policy](https://policy.unt.edu/policy/07-002), (<https://policy.unt.edu/policy/07-002>).

## Summary of Key Dates – 2026 Spring

See, [Academic Calendars by Semester](#), for the complete list.

**January 12:** Classes begin.

**January 16:** Last Day to Add a Class or Swap Sections. A swap is switching sections of the same course in the same session.

**January 24:** Last Day to Drop a Class Section Without W. Courses dropped before this date will not appear on official transcript. Dropping courses may impact financial aid and degree completion. See advisors.

**January 25:** Drop with a grade of W Begins. Courses appear on the transcript with a grade of W and tuition and fees remain. Dropping courses may impact financial aid and degree completion. See advisors.

**February 20:** Last Day to Change to Pass/No Pass (undergrads)

**March 6:** Midpoint of the Semester

**April 10:** Last Day to Drop a Course or All Courses with a Grade of W.

**April 11:** First Day to Request a Grade of Incomplete. Beginning this date, a student may request a grade of "I," incomplete, a non-punitive grade given only if the

- (1) student *is passing*,
- (2) has justifiable reason the work cannot be completed on schedule; and
- (3) arranges with the instructor to complete the work in no more than one academic year.

**April 29 – 30:** Prefinal Days

**April 30:** Last Regular Class Meeting

**May 1:** Reading Day – No Classes

**May 4 – 8:** Final Examinations

**May 8:** Last Day of Session