

# Math 1190.405: Business Calculus

Summer Term 5KW1 2026

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## Instructor Information

**Instructor Name:** Josiah Locke

**Office Location:** GAB 477 (NOTE: I am **not** holding in-person office hours).

**Office Hours:** By appointment. Students may request via email.

**Email:** josiah.locke@unt.edu

**Communication:** For any questions, email me. Note that I may have us meet virtually to answer the question, as opposed to answering over email.

## Course Description, Structure, and Objectives

**Description:** Differential and integral calculus with emphasis on applications to business.

**Modality:** 100% online via Canvas and Knewton.

**Length:** 5WK1 Term (May 18<sup>th</sup>-June 18<sup>th</sup>)

**Structure:** Course consists of 4 modules:

1. Limits and Definition of Derivative
2. Derivative Rules
3. Applications of Derivative
4. Integration and Applications

The grade will be based off homework assignments, some Canvas discussions and quizzes, three midterms, and one final exam. See the "Assessing Your Work" section of this syllabus for more details on the grading.

**Learning Objectives:** Upon successful completion of this course, students will:

1. Apply calculus to solve business, economics, and social sciences problems.
2. Apply appropriate differentiation techniques to obtain derivatives of various functions, including logarithmic and exponential functions.
3. Solve optimization problems with emphasis on business and social sciences applications.
4. Determine appropriate technique(s) of integration.
5. Integrate functions using the method of integration by parts or substitution, as appropriate.
6. Solve business, economics, and social sciences applications problems using integration techniques.

## Course Materials

**Required/Recommended Materials:** There is no physical textbook for this course. Homework assignments will require accessing Knewton through your UNT Canvas account. You will have to purchase access to Knewton. See the Canvas page for more details on this, specifically the “*Getting Started with Knewton*” page, in the “*Start Here*” module.

**Calculators:** TI 83, TI 83 Plus, TI 84, TI 84 Plus or equivalent, their use will be supported in class. Examples of calculators not allowed: TI-Nspires, TI 92’2 or any other utility with alphanumeric/CAS capabilities ARE NOT permitted, nor are any devices which are capable of connecting to other devices or the internet.

**Digital Components:** This course has digital components. To fully participate in this class, students will need internet access to reference content on the Canvas Learning Management System and Knewton. If circumstances change, you will be informed of other technical needs to access course content. Information on how to be successful in a digital learning environment can be found at [Learn Anywhere \(https://online.unt.edu/learn\)](https://online.unt.edu/learn).

## Course Requirements/Schedule

**Calendar:** See Canvas for the course calendar. The calendar is subject to change.

**Final Exam:** The final exam will be on Canvas, and will take place June 18<sup>th</sup>.

**Campus Closures:** Students will be notified by Eagle Alert if there is a campus closing that will impact our class. See [Campus Closures Policy \(https://policy.unt.edu/policy/15-006\)](https://policy.unt.edu/policy/15-006).

## Assessing Your Work

### Grading Scale:

A: 90-100  
B: 80-89  
C: 70-79  
D: 60-69  
F: 0-59

## Grading Distribution:

Course Component	Description	Percent of Grade
Homework	Completed online with Knewton/Canvas quizzes.	20%
Engagement	Discussions, quizzes, and other activities.	10%
Midterms	Three midterm exams will be given. These are in Canvas, require LockDown Browser and Respondus monitor. They are equally weighted (about 16.67% each).	50%
Final Exam	On Canvas, as the other exams are.	20%

**Exams:** For exams, you are permitted to use writing implements (e.g. pencil), blank sheets of scratch paper and an approved calculator.

**Late Work:** Late work will not be accepted.

## Attendance and Participation

This course is completely asynchronous, so there is no mandatory attendance for any lectures or live discussions. If any synchronous meetings are held, attendance will be optional. Students must participate in the assignments and assessments to earn points.

## Other Important Information

**F1 Visa Regulations:** 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 \(DOC\)](#) holders. Full-time status for F-1 Visa students is 12 hours for undergraduates and 9 hours for graduate students.

**ADA Statement:** The University of North Texas makes reasonable accommodations for students with disabilities. To request accommodations, you must first register with the Office of Disability Access (ODA) by completing an application for services and providing documentation to verify your eligibility each semester. Once your eligibility is confirmed, you may request your letter of accommodation. ODA will then email your faculty a letter of reasonable accommodation, initiating a private discussion about your specific needs in the course. You can request accommodations at any time, but it's important to provide ODA notice to your faculty as early as possible in the semester to avoid delays in implementation. Keep in mind that you must obtain a new letter of accommodation for each semester and meet with each faculty member before accommodations can be implemented in each class. You are strongly encouraged to meet with faculty regarding your accommodations

during office hours or by appointment. Faculty have the authority to ask you to discuss your letter during their designated office hours to protect your privacy. For more information and to access resources that can support your needs, refer to the [Office of Disability Access](https://studentaffairs.unt.edu/office-disability-access) website (<https://studentaffairs.unt.edu/office-disability-access>).

**Code of Conduct:** Every student in this class should have the right to learn and engage within an environment of respect and courtesy from others. I encourage you to review UNT's student code of conduct so that we can all start with the same baseline of civility. ([Code of Student Conduct](https://policy.unt.edu/policy/07-012)) (<https://policy.unt.edu/policy/07-012>).

**Academic Integrity:** "I commit myself to honor, integrity, and responsibility as a student representing the University of North Texas community. I understand and pledge to uphold academic integrity as set forth by [UNT Student Academic Integrity Policy, 06.003](https://policy.unt.edu/policy/06-003) (<https://policy.unt.edu/policy/06-003>). I affirm that the work I submit will always be my own, and the support I provide and receive will always be honorable."