

# Math 1190.001: Business Calculus

## Instructor Information

**Name:** Kenzie Fontenot

**Pronouns:** She/her

**Office Location:** GAB 401A

**Office Hours:** M/W 10-10:50 am in person, Tuesday 11-1 on Zoom (ID: 828 912 6142) or by appointment

**Email:** [kenzie.fontenot@unt.edu](mailto:kenzie.fontenot@unt.edu) (Do not use any of my other email addresses!)

**Meeting location and time:** PHYS 104, 9:00-9:50 am

**Communication Expectations:** Only contact me through your student email. If you use your personal email, by university policy, I cannot answer you. You can message me through Canvas, but I don't get notifications when you do this so it will take me longer to respond. If you message me through email, I will almost always respond within 1 business day and at most 2 business days. I typically respond in one (1) business day, during business hours. A message received after business hours is considered received the next business day. The best way to reach me is via email. I will work hard to respond as quickly as possible to emails, but it may occasionally take me up to a business day to respond. Though I might reply to an email late at night or on the weekend, you should not expect quick responses outside of the hours of 8am -5pm.

## Course Description

Differential and integral calculus with some applications to business.

## Course Structure

This is a 15-week, face-to-face course that will cover Units 1-4. There will be 4 midterm exams, plus a comprehensive final exam.

## Course Prerequisites or Other Restrictions

**Prerequisite(s):** Two years of high school algebra and consent of department or MATH 1100 or MATH 1180 with a grade of C or better.

## Course 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.

## ADA Policy

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Access (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodations at any time, however, ODA notices of reasonable 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 reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information, refer to the Office of Disability Access website at <https://studentaffairs.unt.edu/office-disability-access>. You may also contact ODA by phone at (940) 565-4323.

## AI Policy

I will not use AI in any capacity in this course. You may not use AI in this course to answer any questions on the homework, as this will be considered cheating and is considered academic dishonesty.

## Materials

Homework assignments will require accessing Knewton or Canvas “quizzes” through your UNT Canvas account. Log in to Canvas at <https://unt.instructure.com>, read through “Getting started with Knewton”. Additional resources are listed in Canvas. You will have to purchase access to Knewton or continue access if you have used it for Math 1180 or 1190 and purchased the 2-year access within the last two years. This can be done through the Barnes and Noble link or other sellers. You can get free access for up to two weeks. For more information about your homework, please read the Homework section.

*No textbook is required.*

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## Course Technology & Skills

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](#).

## Minimum Technology Requirements and required skills

- A working computer with speakers and webcam that can reliably access the internet and access Canvas ([minimum requirements](#)) and view content videos on Canvas or Youtube
- A calculator (see Calculator Policy)
- Ability to download, install and run software
- Proficiency in using Canvas
- Proficiency in using Knewton (see Getting Started with Knewton in Canvas)
- Proficiency in using your calculator

Information on how to be successful in a digital learning environment can be found at [Learn Anywhere](#) (<https://online.unt.edu/learn>).

### Calculator Policy

Calculators and any other device that can connect to the Internet are strictly prohibited on exams. Any other calculator can be used on exams. You can use any calculators you like for homework, quizzes, etc. Among good options are the TI-36X, TI-30XIIS, TI-83 or TI-84 (or similar Casio, other manufacturer's calculators).

### Knewton is Required

The homework and some course content will be delivered in Knewton, which must be accessed through via Canvas. You **will not** need a Knerd link as the access is provided directly in Canvas. Note: Mac users may find it easiest to use a browser other than Safari.

## Course Evaluation

Homework(Knewton) 20%

Midterm Exams 60% total (15% per exam)

Final Exam 20%

Canvas Work 10%

Note that the total of the above scores is 110%, however your course will still be graded out of 100%. This is intentional. What this means is that you can score over 100% in this class, so you can view this as the opportunity to earn at least 10 bonus points on your total grade in this class. **Your final exam can also replace your lowest exam grade at the end of the semester.** For example if you score a 30%, 80%, 75%, and 50% on your exams and score a 70% on the final exam, the 70% will count towards your final exam score (i.e. 20% of your grade) and it will also replace the 30% in the grade book for that exam.

### Grade Assignment:

A: [90%,120%); B: [80%, 90%); C: [70%, 80%); D: [60%, 70%); F: [0%, 60%).

Because of all the opportunities for bonus points and extra credit offered in this course combined with the fact that it is graded 110/100, no grades will be rounded at the end of the semester. Yes, even if you score a 69.5%, your grade will not be rounded as you had ample opportunities during the semester for extra credit.

# Policies/information directly affecting grades/grading

## Homework:

The online homework is worth 20% of your overall course grade. Each assignment is equally weighted.

Homework will use an online software program called Knewton.

**What is Knewton?** Knewton is a mastery-based adaptive software and is designed to judge your ability to complete your assignments. You will be able to proceed through Knewton much more quickly if you study and review your notes before starting the assignments. For best results, read through "Getting Started with Knewton" located in Canvas before your first assignment.

**Why do Homework?** A purpose of homework is to provide you with sufficient opportunities to learn and practice the new content you are learning. Knewton is adaptive and mastery based, which means that the software will provide each student with the sufficient number of questions to judge whether each topics learning objectives have been mastered. This means a student who has prepared well before the assignment may have very short assignments, while a less well prepared student may take many more questions on each assignment. Again, the more you prepare before starting to attempt the exercises, the less work you will have. For more tips on how to get the most out of the homework assignments, read through "Getting Started with Knewton"

### Get the Most out of Homework

- You should have a dedicated notebook for your math homework. Carefully write out your work, especially noting the questions with which you struggled. This should form a substantial part of your review material prior to the exams.
- Homework is one piece of your learning process in this course, but successful completion of the homework assignments is not sufficient preparation for exams. You must be able to work the exercises on your own, without any aids on exams.

### Where is Knewton?

You access your Knewton powered homework in one of two ways through Canvas, they are:

1. At the Syllabus portal. Every assignment for your course is accessible through the Syllabus portal. This portal is very helpful because it lists all assignments in due date order; or
2. At the content module. Select the Modules tab along the left-hand navigation of Canvas. From the Modules select Unit 1. The Knewton assignments have a paper and pencil icon to their left.

### When are Knewton Homework Assignments due?

Assignment due dates are listed on the calendar and on the syllabus link in Canvas. Knewton assignments are always due at 11:59 PM on Saturdays. You will have at least 1 week for each assignment (with the exception of the very first assignment of the semester, which has slightly less than 1 week). To successfully complete the assignments, you must carefully manage your time. I recommend that you plan to complete them well ahead of the due date, but after the content for that section has been covered in class. Late homework will not be accepted.

## Midterm Exams

Four in-class exams are planned for this semester. Keep a record of all your scores. Be sure to review your exam upon receiving it. Check your written exam grade with the grade posted online to ensure that they are the

same. The midterm exams account for a total of 60% of the overall course grade. Tentative dates are listed on the attached calendar. The final exam is comprehensive.

## Final Exam:

The final exam is on **Wednesday May 4 at 7:30 am (yikes) in our normal room (PHYS 104)**. The final exam is comprehensive and is (at least) 20% of the course grade. The format of the final exam will be the same as the format of the midterm exams, except longer. If your final exam score is higher than one of your midterm exam scores, then that midterm exam grade will be replaced with the final exam grade.

## Examination Policy

Exams are closed book, on paper, and done in class during the time listed on the syllabus unless an announcement of a change is made in class. I work hard to structure my course in such a way that balances the time necessary for students to learn the necessary content with the need to have regular midterm exams. As such, students are expected to take the exams on the given day. In the event of a schedule conflict with a university function, dental/physician appointment, wedding, formal, etc., the student must take the test early if at all possible. I request a week notice for this accommodation via email. In the event that an unavoidable conflict/illness comes up, reach out to me as soon as you can. If a student does not take a scheduled exam, a zero may be recorded for that exam. If your final exam score is higher than one of your midterm exam scores, then that midterm exam grade will be replaced with final exam grade. If you receive a zero for academic dishonesty on an exam, the final exam score will NOT replace that zero.

## Assignment Policy

All homework assignments are due online through Canvas either directly in Canvas or via Knewton.

## Late Work

Due dates are expected to be followed and are intended to allow you time to complete the course on time. As such, I will rarely accept late work. If exceptional circumstances occur, please reach out to me as soon as possible.

## Instructor Responsibilities and Feedback

My goal in this course is to provide an environment conducive to your learning. I will work hard to be available outside of class during my tutoring/office hours or via email. I welcome questions about any portion of the course and am happy to clarify any issues if they come up. Most homework assignments are automatically graded and you can review your work on the Canvas assignments the day after they are due. I make it a priority to grade exams quickly, you can expect me to get them back to you a week **from the exam date**.

## Drop/Withdrawal Policy

If the student is unable to complete this course, it is the student's responsibility to formally withdraw from the course. You can find more details about dropping the course here: <https://vpaa.unt.edu/advising/dropping/deadlines.html>

If the student does not properly withdraw from the course but stops attending, the student will receive a performance grade, usually an F.

If you are considering dropping, it is strongly recommended that you discuss the matter with me as soon as possible.

#### Incomplete

Beginning April 11th, a student that qualifies may request a grade of "I", incomplete. An "I" is a non-punitive grade given only if ALL three of the following criteria are satisfied. They are:

- The student is passing the course;
- The student has a justifiable (and verifiable) reason why the work cannot be completed as scheduled; and
- The student arranges with the instructor to complete the work within one academic year.

#### Syllabus Change Policy

This syllabus is subject to change. Any changes will be announced in class and the updated syllabus will be posted in Canvas.

## Attendance and Participation

Research has shown that students who attend class are more likely to be successful. You should attend every class and participate fully unless you have a university excused absence such as active military service, a religious holy day, or an official university function as stated in the [Student Attendance and Authorized Absences Policy \(PDF\)](#). **For every 11 absences, you will automatically drop a letter grade.** Even if you are unable to attend, students are responsible for all information given in class (notes, both empty copies and with solutions, are available in Canvas).

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#### Emergency Notification and Procedures

Students will be notified by Eagle Alert if there is a campus closing that will impact a class. The calendar is subject to change: see the [Emergency Notifications and Procedures Policy](#)

#### Classroom Etiquette:

Appropriate behavior is expected of all students taking this course. Arrive to class promptly and do not leave until the scheduled ending time of the class. If you must arrive late or leave early, please do so as discreetly as possible and take a seat near the door. Turn off all non-medical electronic devices such as pagers, cell phones, laptops, etc. Take off your headphones. Do not play on your phone or work on unrelated assignments during class. I reserve the right to ask disruptive students (texters, those using a computer for non-class related work, etc.) to leave class. You will be considered absent if you are asked to leave. Again, it is considered a serious violation of your responsibilities as a student to be on a computer or your mobile device during class. It distracts you, lowers your performance in class and does the same for those around you. Please read the New Yorker article I've posted on Canvas for more information about this. Students misusing electronic devices for non-academic reasons distract others and may be asked to leave. See also #8 on the [10 academic rights that is linked here](#).

## Recommended Steps to Succeed

I hope this advice will be helpful for you. It consists of my observations in the time I have been teaching. I have observed two character traits common to successful students. The traits are maturity and time commitment. Learning requires working when you don't want to – that requires maturity. Learning also requires consistent and diligent dedication of time.

Some additional specific steps:

- Learning math requires a great deal of time and honest effort along with regular and consistent work.
- After class review your notes. If you have questions, ask immediately.
- Actively read through all recommended readings.
- Use the time you spend on your Knewton assignments to learn the material rather than just getting through the homework as fast as possible.
- Complete the Exam Reviews prior to each exam.
- Form a study group with your classmates. Create online groups.
- Make use of the tutoring options available to you: the [Math Lab](#), the [Learning Center](#), and your instructor's tutoring hours.
- The [Learning Center](#) offers several tutoring options: Drop-In Tutoring, One-on-One Tutoring, Group Tutoring and Online Tutoring. Additional links for places you can get help at UNT is on the Academic Support and Student Services page in the Canvas Start Here module.
- Work on the assignments consistently well ahead of due date. Waiting until the last minute is a horrible idea.
- Math is not a spectator sport. You must try the problems, finish problems, ask questions, correct your mistakes, put concepts in your own words, and practice, practice, practice. You learn math by doing, not by watching others do math.
- Contact your instructor immediately if you are having problems.

One last thought: As an adult, you need to **self-advocate**. If you are having problems, you are expected to seek help. Most of you, at some point in your college career you will run into problems and need to ask for help – don't wait, reach out as soon as you realize you have an issue.

### Supporting Your Success and Creating an Inclusive Learning Environment

Every student in this class should have the right to learn and engage within an environment of respect and courtesy from others. We will discuss our classroom's habits of engagement and I also encourage you to review UNT's student code of conduct so that we can all start with the same baseline civility understanding ([Code of Student Conduct](#)).

Summary of key dates: Review the registrar's [Academic Calendar & Key Dates](#)

### Academic Integrity Policy

Cheating on tests, quizzes or final exams is a serious breach of academic standards and will be punished severely and generally result in a student failing the course. All work done on exams and quizzes must represent only the student's own work, unless otherwise stated in the directions. 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. See [Academic Integrity](#) for details on academic integrity policies at UNT.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday (Knewton due dates)
1/12 Section 1.0 Section 1.1	1/13	1/14 Section 1.1 Section 1.2	1/15	1/16 Section 1.2	1/17 Section 1.0
1/19 MLK Jr Day, No school	1/20	1/21 Section 1.3	1/22	1/23 Section 1.4	1/24 Sections 1.1, 1.2
1/26 Section 1.4	1/27	1/28 Section 1.5	1/29	1/30 Section 1.5 Section 1.6	1/31 Section 1.3, 1.4
2/2 Section 1.6	2/3	2/4 Section 2.1	2/5	2/6 Exam 1	2/7 Section 1.5 pt 1 & 2
2/9 Section 2.2	2/10	2/11 Section 2.2	2/12	2/13 Section 2.3	2/14 Section 1.6, 2.1
2/16 Section 2.3	2/17	2/18 Section 2.4	2/19	2/20 Section 2.4	2/21 Section 2.2, 2.3
2/23 Section 3.1 Unit 1 &2 Wrapup	2/24	2/25 Section 3.1 Section 3.2	2/26	2/27 Exam 2	2/28 Section 2.4 (Canvas)
3/2 Section 3.2	3/3	3/4 Section 3.2, 3.3	3/5	3/6 Section 3.3	3/7 Section 3.1 (Canvas and Knewton)
3/9 Spring break	3/10 Spring break	3/11 Spring break	3/12 Spring break	3/13 Spring break	3/14
3/16 Section 3.4	3/17	3/18 Section 3.4	3/19	3/20 Section 3.5	3/21 Section 3.2, 3.3
3/23 Section 3.5 Unit 3 Wrapup	3/24	3/25 Section 4.1	3/26	3/27 Exam 3	3/28 Section 3.4, 3.5
3/30 Section 4.1	3/31	4/1 Section 4.2, 4.1	4/2	4/3 Section 4.2	4/4 Section 4.1
4/6 Section 4.3	4/7	4/8 Section 4.3	4/9	4/10 Section 4.4	4/11 Section 4.2
4/13 Section 4.4	4/14	4/15 Section 4.5	4/16	4/17 Section 4.5	4/18 Section 4.3, 4.4
4/20 Section 4.6 Unit 4 Wrapup	4/21	4/22 Exam Review	4/23	4/24 Exam 4	4/25 Section 4.5, 4.6
4/27 Review for final	4/28	4/29 Review for final	4/30	5/1 Reading day, no classes	5/2
	5/5	5/6 Final exam 7:30	5/7 Last day of finals	5/8	5/9