

THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICAL SCIENCES

COURSE BASICS

Course Number: MATH 1411: **14291**
Course Title: Calculus I
Credit Hours: 4
Term: Fall 2024
Meeting and Location: TR: 9:00 – 10:20, Liberal Arts Building RM 211
Prerequisite Courses: MATH 1508 with a grade of C or higher or proper placement

INSTRUCTOR INFORMATION

Instructor: Thomas Taylor
Office Location: LIB 523
Email: ttaylor2@utep.edu
Office Hours: TWR 1:30 to 2:30 or by appointment

Supplementary Contact

Math Department: mathdept@utep.edu
Course coordinator: Dr. Julio Urenda - jcurenda@utep.edu

COURSE OVERVIEW

Course Objectives

You will clearly understand the ideas of differential and integral calculus as a solid foundation for subsequent courses in mathematics and other disciplines and direct application to real-life situations. Topics include limits, continuity, differentiation, and integration of functions of a single variable.

Learning Outcomes

Upon successful completion of Calculus I, you will:

- Compute limits and derivatives of algebraic, transcendental, and piece-wise defined functions.
- Identify and apply the most common derivative rules associated with the algebra of functions.
- Compute definite and indefinite integrals of algebraic, trigonometric, inverse trigonometric, exponential, logarithmic, and piece-wise defined functions.
- Determine the continuity and differentiability of a function on its domain.
- Analyze the derivative of a function to determine.
 - Critical values
 - Inflection Points

- Subsets of monotonicity
- Subsets of fixed concavity
- Analyze the graph of a function to estimate its derivative and infer functional properties.
- Solve problems in a range of mathematical applications using the derivative of the integral and
- Familiarize and apply.
 - Rolle's Theorem
 - The Mean Value Theorem
 - The Intermediate Value Theorem
 - The Fundamental Theorem of Calculus

REQUIRED MATERIALS

Textbook

Calculus by Larson, 12th Edition (available as e-book and hardcover) with an Enhanced WebAssign Access code. ISBN-13: 978-0357749135

Required

You must have the Enhanced WebAssign access code. This gives you full access to both the assignments and the e-book.

Optional

A hard copy of the textbook is available but optional for the class. The e-book is adequate and comes with the necessary access code.

Calculator

A Scientific Calculator is required (for example, TI-30XIIS). A graphing calculator with derivative and integration capabilities is not allowed.

Online Components

You must have a WebAssign account (free) and the Enhanced WebAssign access code (paid access).

Ensure your UTEP e-mail account works and you have consistent internet access and a stable web browser. Mozilla Firefox, Google Chrome, and Safari are the most supported browsers for Blackboard and WebAssign.

You will need to have regular access to a computer or laptop. There may need to be more than a cell phone for doing coursework. You will need to download or update the following software:

- [Microsoft Office](#) (available for free through UTEP),
- [Adobe](#),
- [Windows Media Player](#) or [QuickTime Player](#), and
- [Java](#).

Blackboard

Blackboard will not be used by me for the course but it contains extremely useful material to support the course and perusing it could be very useful.

Modules:

This course is designed using a modular format. Each chapter is “packaged” as a single module so that all the materials, lecture notes, submission areas, and discussion posts are in one place for a given week.

WebAssign

WebAssign is an online course management system for Cengage, the publisher of our text. **You must have a reliable internet connection to take this course.** Follow the instructions below to access and register for WebAssign using your official UTEP email account. You will have a 14-day free trial to access your coursework immediately.

Instructions to access and register for WebAssign:

On the first day of classes, go to www.webassign.net and follow these steps:

- 1) Click on “Enter Class Key.”
- 2) Enter the class key given by your instructor. Be sure to include all three sections shown:
UTEP86831014
- 3) Verify the section number and instructor name, then enter your information. Please use your official UTEP miners’ email and remember the password you created.
- 4) The next time you log in, click “Log In” and enter your *UTEP miners e-mail* and the password you created.

You must purchase an access code to log in as soon as possible and before the grace period ends. If you bought a new book from the UTEP bookstore, the code should have come with it. When entering the code, appropriately enter all the words and characters in the boxes.

Activities and Assignments

You will find all assignments on www.webassign.net. Please use Mozilla Firefox, Google Chrome, or Safari since WebAssign works best with these browsers. All work, including homework, quizzes, and exams, will occur through WebAssign.

Resources:

You will have PowerPoint and video access to the course through the Resources section of WebAssign and Blackboard. You can click on resources at the bottom of your WebAssign homepage and access PowerPoint lectures from the publisher and the Cengage lecture videos for each section we cover. I will provide worksheets for each unit, including notes and Blackboard practice problems.

Tutoring

The MaRCS tutoring center offers free tutoring for math classes. Their website has more information: <https://www.utep.edu/science/math/marcs/>.

Several valuable features in WebAssign are designed to provide extra help. These include “Watch it” and “Master it” links, which were publisher-created and enabled for every homework question for which they are available.

I am also available during office hours to help with questions.

Class Activity Settings

Homework Assignments

All homework will be completed on WebAssign. Each question has five attempts. I recommend you get help after the 3rd incorrect submission rather than waiting until you are out of attempts to get help.

Quizzes

After a few homework sections, you will have a 60-minute timed quiz over that material again on WebAssign. These questionnaires may contain problems you have yet to see previously, but they will be based on the same concepts.

The password for all quizzes is the word **ready**.

Each question has three attempts. If you choose to start a quiz less than 60 minutes before the due date, the examination will conclude at the due date, and your answers will be auto-submitted. Please note that after you open the quiz assignment, it will show an updated due date and time precisely one hour after you begin that quiz. This is because it is a timed assignment, and you **cannot** return to work later.

Exams

An exam review will be available on WebAssign a few days before the exam date. The exam review is a homework score, so complete it promptly. The exams will be available on WebAssign for 24 hours on the date specified by the course calendar and listed below. The exam is timed at 120 minutes (two hours) and will have an accessible scientific calculator. You have two attempts at each problem.

Exam 1 Friday, September 27, 2024

Exam 2 Friday, November 1, 2024

Exam 3 Friday, December 6, 2024

The password for all exams is the word **ready**.

If you choose to start an exam less than 120 minutes before the due date, the exam will conclude at the due date, and your answers will be auto-submitted.

You can retake each midterm exam, allowing you to improve your grade if desired. *The exact dates are available on WebAssign.* **The same scheduling rules apply to retake examinations.**

Final Exam

The final exam will be available on **Tuesday** of final exam week. This comprehensive exam is required for all students and is worth 30% of their course grade. It is timed at 165 minutes (2hr45min) and will have an accessible scientific calculator.

The password for the final exam is the word **ready**.

Timed Assignments:

For all timed assignments, the clock begins once you open the task. It will not stop for any reason, not even if you log out. For this reason, checking for updates on your computer before beginning the timed

assignments is vital. The due date will change to reflect the time limit for timed tasks once you start the quiz or exam.

Grading Policy

Your graded work decomposes as follows:

| Category | Percentage Weight Towards Final Grade |
|--------------------|---------------------------------------|
| Homework | 10% |
| Quizzes | 15% |
| Exam I | 15% |
| Exam II | 15% |
| Exam III | 15% |
| Comprehensive Exam | 30% |

Letter grades are determined according to the following scale:

| Numerical Value | Letter Grade |
|------------------------------|--------------|
| 90 or above | A |
| 80 or above but less than 90 | B |
| 70 or above but less than 80 | C |
| 60 or above but less than 70 | D |
| Less than 60 | C |

We will establish a work contract to be completed within the deadlines.

Drop Policy

The Drop Date for this semester is November 1 before 5:00 PM MDT. No drops will be approved after this date or time.

Students who decide to drop the course must process a drop form by emailing from their official UTEP email account to records@utep.edu by the above date. When you email, be sure to do so from their official UTEP miners email account and include their full name and student ID number, as well as complete class details such as the course name, number, and CRN. Please note that the College of Science will remain aligned with the University and **will not approve any drop requests after that date.**

Incomplete Grade Policy

Incomplete grades may be requested only in exceptional circumstances after you have completed at least half of the course requirements. Talk to me immediately if you believe an incomplete is warranted.

Course Schedule

The last pages of this syllabus contain a comprehensive course schedule and some semester highlights. For more details, refer to the UTEP Academic Calendar.

COURSE COMMUNICATION

Student office hours are when you can get individualized help from me. I can answer course content questions and address your class concerns. During scheduled times, you may drop in without an appointment. You are only required to attend the sessions if you have questions. If you need help and cannot participate during the scheduled time, please email or text me to schedule an appointment.

Office hours are only held during regular university scheduling. Please allow at least one business day for the return of emails. Evening and weekend emails will be attended to during regular business hours—other times at the instructor’s discretion.

Hours will be adjusted appropriately during off-scheduling (Finals week) or condensed scheduling (late start, closed university).

UNIVERSAL COURSE POLICIES AND STATEMENTS

Make-up Policy

Homework

A homework extension can be requested within seven days of the due date. To do so, log in to WebAssign and click on My Assignments. Scroll to the assignment you want to extend and click Request Extension. Select “Automatic” and “Accept” the extension. The new due date will be 48 hours before the extension is requested. Note that this means that the **timing** will also change. No penalty will be applied to problems submitted after the original due date. You may extend each homework assignment only once, so be sure you are ready to do the work when you accept the extension.

You may not view the key to a homework assignment before requesting the automatic extension.

Quizzes

Quizzes are not extended. They are available on their due date. Please make plans to take the quiz early if you have a conflict.

If you feel that you have some extenuating circumstance or excused absence that will keep you from completing the assignment or quiz promptly, please contact me immediately and be prepared to show supporting documentation.

University-Sponsored Events

These include, but not exclusively, attending conferences and athletic competitions. Please inform me of any traveling conflicts before they leave and make adequate arrangements to make up the missed material within one week of returning. Please do so to avoid the forfeiture of points.

Exams

A make-up exam will only be given in extraordinary circumstances, such as severe illness or death in the immediate family, and with appropriate documentation (e.g., doctor’s note).

Alternative Means of Submitting Work in Case of Technical Issues

I strongly suggest you submit your work with plenty of time to spare if you have a technical issue with the course website, network, or computer. I encourage you to save all your work (answers to discussion points, quizzes, exams, and essays) in a separate Word document as a backup. This way, you will have evidence that you completed the work and will not lose credit. If you are experiencing difficulties submitting your work through the course website, please get in touch with the UTEP Help Desk.

You can email me your backup document as a last resort. You must also have proof of the technical issue, at least a screenshot, or email from your internet provider describing an outage in your area.

Attendance Policy

You are expected to work toward completing the course assignments daily. Your completed tasks measure attendance in this course. Failing to complete tasks is equivalent to being absent. Please complete work for several weeks to avoid dropping out of the course section. You must regularly check Blackboard and your UTEP Miners email for announcements and the WebAssign Announcement section.

Academic Integrity Policy

The University policy is that all suspected cases or acts of alleged academic dishonesty must be referred to the Dean of Students for investigation and appropriate disposition. Any student who commits an act of academic dishonesty is subject to discipline. Academic dishonesty includes but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give an unfair advantage to a student or the attempt to commit such acts.

Each student is responsible for notifying and complying with the Regents' Rules and Regulations provisions, which are available for inspection electronically at <https://www.utsystem.edu/offices/board-regents/regents-rules-and-regulations>.

All students are expected and required to obey the law, comply with the Regents' Rules and Regulations, with System and University rules, with directives issued by an administrative official during their authorized duties, and observe appropriate standards of conduct for the University. Students who enroll at the university must conduct themselves in a manner compatible with its function as an educational institution.

Any student who engages in conduct that Regents' Rules prohibit, Regulations, U. T. System or University rules, specific instructions issued by an administrative official, or federal, state, or local laws are subject to discipline, whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such behavior.

Course Etiquette Policy

All correspondence with your instructor, TA, and other students should be conducted appropriately and professionally. Please be considerate of your tone and word choice in all your posts.

Accommodation Policy

The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services, and activities with documented disabilities to provide them with equal opportunities to

participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship for the University. Students requesting accommodation based on a disability must register with the UTEP Center for Accommodations and Support Services (CASS). Contact the Center for Accommodations and Support Services at 915-747-5148, email them at cass@utep.edu, or apply for accommodations online via the CASS portal.

Military Statement

If you are a military student who may be called to military service or training during the semester, please get in touch with me as soon as you receive your orders.

Copyright Statement

All materials used in this course are protected by copyright law. The course materials are only for students currently enrolled in this course and only for this course. They may not be further disseminated.

Culture of Care Statement

UTEP promotes a culture of care and excellence. In this course, I strive to model kindness and do my best to support you in learning while maintaining high expectations and learning outcomes.

COURSE RESOURCES

Where you can go for assistance, UTEP provides a variety of student services and support:

Academic and Technology Resources

- **[Help Desk](#)**: If you are experiencing technological challenges (email, Blackboard, software, etc.), you can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus, Academic Resources.
- **[UTEP Library](#)**: Access a wide range of resources, including online full-text access to thousands of journals and eBooks, a reference service, and librarian assistance.
- **[Math Tutoring Center \(MaRCS\)](#)**: Ask a tutor for help and explore other available math resources.

Individual Resources

- **[Military Student Success Center](#)**: Assists personnel in any service branch and their dependents in reaching educational goals.
- **[Center for Accommodations and Support Services](#)**: This organization assists students with ADA-related accommodations for coursework, housing, and internships.
- **[Counseling and Psychological Services](#)**: Provides various counseling services, including individual, couples, and group sessions, as well as career and disability assessments.