



Math 2413.003 Calculus I

COURSE SYLLABUS: Fall 2026

Instructor: Rebecca Dibbs, PhD

Office Location: 110 Education North

Office Hours: MWF 10-11 am, T 12:30-1:30 or by appointment

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COURSE INFORMATION

Materials

Textbook(s) Required: Calculus, 9th Edition, by James Stewart. Material covered during the session will be Sections 1.4-1.8, Chapters 2, 3, and 4, 6.2-6.4 and 7.1-7.2. We may occasionally cover enrichment activities not in the text.

Optional: How to Ace Calculus/How to Ace the Rest of Calculus by Adams et al. Calculus II is split between the two books (Calculus I is entirely in the first book), but used copies can generally be found for under \$5 on Amazon.com.

Firefly Lectures & Professor Leonard are the best YouTube channels for calculus I help.

Course Description: This course examines differential and integral calculus of functions of one variable, as follows. Topics include limits; continuity; derivatives; curve sketching; applications of the derivative; the definite integral; derivatives and integrals of trigonometric functions; and use of computer technology. Prerequisite Two years of high school algebra and trigonometry or Math 2412.

Student Learning Outcomes

1. Students will demonstrate proficiency in the use of mathematics to structure their understanding of and investigate questions in the world around them.
2. Students will demonstrate proficiency in treating mathematical content at an appropriate level.
3. Students will demonstrate competence in the use of numerical, graphical, and algebraic representations.
4. Students will demonstrate the ability to interpret data, analyze graphical information, and communicate solutions in written and oral form.
5. Students will demonstrate proficiency in the use of mathematics to formulate and solve problems.
6. Students will demonstrate proficiency in using technology such as handheld calculators and computers to support their use of mathematics.

Student Assessment Outcomes

1. Critical Thinking: The above learning objectives will be assessed for critical thinking in labs and other classroom activities.
2. Written, Oral, & Visual Communication: Students will be assessed on written, oral, and visual communication skills on their quizzes, exams, labs, and lab jigsaw activities.
3. Empirical and quantitative reasoning: All assessments in this course will contain a quantitative reasoning and empirical computation component.

COURSE REQUIREMENTS

Course Activities

Recitations: On Fridays we have a recitation. In these you will have a set of problems to work on that is based on the lectures we had that week. These worksheets serve as your main source of practice, and are due the next Friday, with the exception of the final recitation, which will be due the day of the final exam. Your lowest three grades will be dropped.

Labs: On (generally) Tuesdays we will work in small groups on activities that develop the central concepts in the course. Attendance and participation is especially crucial on these days. You will turn in individual write-ups of these labs activities. It is also important to ask questions of the other groups (who will generally work on related but slightly different problems than your own group) when they present as you will be responsible for all the problems on exams.

Prelabs/Postlabs: The purpose of these assignments is to help me determine where the class is at and how much time we should spend on a particular topic. Prelabs are expected to be completed before class, and postlabs will be completed at the end of class on Tuesday. These assignments will be graded on completion.

Attendance: There may be topics covered in class that are not in the text. You are responsible for all material covered. I don't take attendance, but there is a strong correlation between attendance and final grades. Missing class more than once or twice during the semester is likely to affect your grade, either directly or indirectly. If you do miss class, you should get notes and/or handouts from your classmates and see me during office hours.

Homework: There will be suggested problems assigned for each section for additional practice. The answers to most of these problems are in the text, so I will not collect them. However, you will see some of these problems (verbatim or with slight variations) on tests, so completing the problems is strongly encouraged!

The key to success in this course is regularly working with other students in the class, doing the homework early and asking questions when you have them!!! We will discuss homework problems in class, but there will often not be enough time to discuss all of them. Please come to office hours or visit the math tutoring lab if you have additional questions about the homework.

Quizzes: There will be 16 take home quizzes based upon the suggested homework problems throughout the semester. Your best 13 scores will count for your final grade.

Exams: We will have four in-class exams (roughly covering Chapters 1-2, 3, 4, and 4.5/6.2-6.4/7.1/9), and a comprehensive final exam. The date and time is TBD at the moment. Make-up exams are possible only if there is a *documented* emergency.

Workload and Assistance: You should expect to spend **8 to 12 hours each week**, outside of class, on the course material. This includes reading, homework, and studying for quizzes and exams. Some weeks (those in which an exam is scheduled, for instance) may require more of your time, other weeks may require less, but *on average*, budget 8 to 12 hours each week. **I can't stress enough that in order to be successful in this class you should spend much of this time working with other students in the class!** Please ask questions and seek assistance as needed. You may email me at any time, and I encourage you to make use of my office hours

GRADING

This class will be graded on a weighted percentage system. Assignments are weighted in the following manner:

	Weight
Recitations	10%
Lab Write-ups	10%
Pre-labs, Post-labs	5%
Quizzes	10%
Tests	10% each, 4 total
Final	25%

All point totals will be rounded up to the nearest whole percent before grades are assigned. So, 89.1% rounds to a 90% and is an A, while 78.8% rounds to a 79% and is a C. Point ranges for final grades will be as follows:

A: 90-100%
B: 80-89%
C: 70-79%

D: 60-69%
F: 0-59%

TECHNOLOGY REQUIREMENTS

Use of a graphing calculator having at least the capabilities of the TI-83 will be helpful throughout the course. TI-89 is highly recommended. A computer algebra system will be used for some problem exploration, enhanced conceptual understanding, and to engage students as active participants in the learning process.

COMMUNICATION AND SUPPORT

Interaction with Instructor Statement

My primary form of communication with the class will be through Email and Announcements. Any changes to the syllabus or other important information critical to the class will be disseminated to students in this way via your official University Email address available to me through MyLeo and in Announcements. It will be your responsibility to check your University Email and Announcements regularly.

Students who Email me outside of regular office hours can expect a reply within 24 hours M-F. Students who Email me during holidays or over the weekend should expect a reply by the end of the next regularly scheduled business day.

myLeo Support

Your myLeo email address is required to send and receive all student correspondence. Please email helpdesk@tamuc.edu or call us at 903-468-6000 with any questions about setting up your myLeo email account. You may also access information at <https://leo.tamuc.edu>.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures

Academic Honesty

Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including (but not limited to) receiving a failing grade on the assignment, the possibility of failure in the course and dismissal from the University. Since dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic

dishonesty will be strictly enforced. In **ALL** instances, incidents of academic dishonesty will be reported to the Department Head. Please be aware that academic dishonesty includes (but is not limited to) cheating, plagiarism, and collusion.

Cheating is defined as:

- Copying another's test or assignment
- Communication with another during an exam or assignment (i.e. written, oral or otherwise)
- Giving or seeking aid from another when not permitted by the instructor
- Possessing or using unauthorized materials during the test
- Buying, using, stealing, transporting, or soliciting a test, draft of a test, or answer key

Plagiarism is defined as:

- Using someone else's work in your assignment without appropriate acknowledgement
- Making slight variations in the language and then failing to give credit to the source

Collusion is defined as:

- Collaborating with another, without authorization, when preparing an assignment

If you have any questions regarding academic dishonesty, ask. Otherwise, I will assume that you have full knowledge of the academic dishonesty policy and agree to the conditions as set forth in this syllabus.

Late Policy: Late work/Make-ups will not be accepted without a documentable and valid excuse, because the lowest grade(s) in each category is dropped. Examples of documentable and valid excuses include:

- *car accident w/ police report
- *illness w/ doctor's note (you or your child)
- *athletic or other mandatory extra-curricular travel
- *field trip for another class
- *being detained upon entering the country by Homeland Security

University Specific Procedures

ADA Statement

Students with Disabilities

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

Texas A&M University-Commerce

Gee Library- Room 132

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

StudentDisabilityServices@tamuc.edu

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See *Code of Student Conduct from Student Guide Handbook*).

The Counseling Center at A&M-Commerce, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit www.tamuc.edu/counsel.

AI use policy

Texas A&M University-Commerce acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty

13.99.99.R0.10 Graduate Student Academic Dishonesty

COURSE OUTLINE / CALENDAR

	Monday	Tuesday	Wednesday	Thursday	Friday
8/17	X	X	X	Syllabus & 1.4	Recitation 1 (1.4 & Precalc Review)
8/24	1.5 Quiz 1 Due	Lab 1 (Limits)	1.6 Quiz 2 Due	1.8	Recitation 2 (1.5-1.8)
8/31	2.1 Lab 1 Due	Lab 2 (Derivatives I)	2.2 Quiz 3 Due	2.3	Recitation 3 (2.1-2.3)
9/7	X	2.4 Lab 2 Due	2.5 Quiz 4 Due	Lab 3 (Derivatives II)	Recitation 4 (2.4 & 2.5)
9/14	Test 1 Review Lab 3 Due	Lab 4 (Derivatives III)	Test 1	2.6 Quiz 5 Due	Recitation 5 (2.6)
9/21	2.7 Lab 4 Due	2.8	Lab 5 (Related Rates) Quiz 6 Due	2.9	Recitation 6 (2.7-2.9)
9/28	3.1 Lab 5 Due	Lab 6 (Linear Approximation)	3.2 Quiz 7 Due	3.3	Recitation 7 (3.1-3.3)
10/5	3.4 Lab 6 Due	Lab 7 (Quadratic Approximation)	Review Quiz 8 Due	X	X
10/12	Test 2	3.5 & 3.6	3.7 Quiz 9 Due	Lab 8 (Optimization I)	Recitation 8 (3.4-3.7)
10/19	3.8 Lab 8 Due	Lab 9 (Optimization II)	3.9 Quiz 10 Due	4.1	Recitation 9 (3.8, 3.9, & 4.1)
10/26	4.2 Lab 9 Due	Lab 10 (Antiderivatives)	4.3 Quiz 11 Due	4.4	Recitation 10 (4.2-4.4)
11/2	Review Lab 10 Due	Lab 11 (FTC)	Test 3 Quiz 12 Due	4.5	Recitation 11 (4.5)
11/9	6.2 Lab 11 Due	Lab 12 (U Sub)	6.3 & 6.4 Quiz 13 Due	7.1	Recitation 12 (6.2-6.4 & 7.1)
11/16	9.1 Lab 12 Due	Lab 13 (Integration by Parts)	9.2 Quiz 14 Due	9.3	Recitation 13 (9.1-9.3)
11/23	1.7 Lab 13 Due	1.7/Lab 14 (Limit Proofs) Quiz 15 Due	X	X	X
11/30	Review Lab 14 Due	Lab 15 (Differential Equations)	Test 4 Quiz 16 Due	Final Exam Review	Recitation 14 (Final Review)
12/7	X	X	Final Exam 10:30-12:30	X	X