



MATH 2413.SECTION# (04E) - CALCULUS I

COURSE SYLLABUS: FALL 2022

Instructor: Aditi Ghosh

Office Location: HEND 303

Office Hours: Monday 11-1pm, Wednesday 11-1 pm, Tuesday 2-3 pm

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Preferred Form of Communication: Email or office hours

Communication Response Time: Student course-related questions or concerns through email are answered usually within 24 hours during weekdays (M-F).

Class Meeting Time: MTWTF 1-1.50 PM

Class Location: BINB326

COURSE INFORMATION

Materials

Textbook(s) Required: We will be using the 9th edition of James Stewart's Calculus textbook with ISBN-13 978-1337624183. Our session will cover Sections 1.4-1.8, Chapters 2, 3, and 4, followed by Chapter 6's 6.1, 6.2, 6.3, and 6.4, and finishing with Chapter 7's 7.1. Additionally, we may explore some enrichment in-class activities that go beyond the textbook.

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 2312.

The use of a graphing calculator having at least the capabilities of the TI83 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.

Student Learning Outcomes

Core Objectives: This course addresses the core objectives of critical thinking, communication, and empirical and quantitative skills.

Core Objective 1: Critical Thinking

Students will be able to analyze, evaluate, or solve problems when given a set of circumstances, data, texts, or art.

Core Objective 2: Communication Skills

In written, oral, and/or visual communication, A&M-Commerce students will communicate in a manner appropriate to the audience and occasion, with an evident message and organizational structure.

Core Objective 3: Empirical and Quantitative Skills

Students will be able to interpret, test, and demonstrate principles revealed in empirical data and/or observable facts.

Student Assessment Outcomes

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

1. *Critical Thinking:* Will be measured through one or more of the following: quizzes, projects, and/or exams
2. *Oral, Visual, and Written communication Skills:* Will be measured through one or more of the following: quizzes, projects, and/or exams
3. *Empirical and Quantitative Skills:* Will be measured through one or more of the following: quizzes, projects, and/or exams

COURSE REQUIREMENTS

Instructional Methods:

Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

Exams – (60% of the final grade)

There will be two midterm exams covering approximately few chapters each. No make-up exams will be given. One lowest exam can be replaced by the Finals. But, if you miss an exam without any documented reason, your final exam score will not be counted to fill in the missing grade.

Exam 1: On Week #6, class time during the week of October 2nd

Exam 2: On Week #12, class time during the week of November 6th

No late or make up quizzes. Make-up exams are possible only if there is documented emergency. Two lowest quizzes will be dropped at the last week of semester.

Final Exam - Comprehensive Final Exam.

Friday, December 15th, 10.30 am –12.30 pm

Quizzes – will be given frequently (mostly on Thursday/Friday) and will consist primarily of problems similar to those in the class examples and homework. The lowest two quiz scores will be dropped. **No make-up quizzes will be given except for absences due to university-sponsored events.**

Online Homework Assignments (from WebAssign): Two lowest HW will be dropped. **HW will be recorded in D2L before each Exam.**

TAMUC Attendance

Class attendance is highly encouraged. Every quiz and exams will have few points on attendance. More than three absences before each Exam will lead to a zero score on attendance in Exam.

Regular attendance in class is crucial for earning higher final grades. Active participation and engagement during class discussions are crucial to successful learning. The course material discussed during class is essential for demonstrating proficiency in the subject. It is important for students to inform their instructors of any absences and to make up any missed work. Coordination with fellow students for class notes is recommended if a student cannot attend class. Let's aim for consistent attendance and active participation in class to reach our educational goals.

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

Suggested Problems: Will be assigned in class.

The key to success: This course requires 6-10 hrs of work per week outside the class. Practice your class work to understand the material better. In this course, it is crucial to work with other students in the class, do the homework early, and ask questions when you have them! We will discuss homework problems during Friday's meeting, but there will often not be enough time to discuss all of them. Please join your professor's office hours either on zoom or in her office (Henderson 303) or visit the Math Skills Center (at Binnion 329) if you have additional questions about the homework or the concepts. It's also important to remember that quizzes only cover a specific part of the material, while exams cover the entirety of the subject. This might explain why your scores sometimes differ. To improve your exam score, you should frequently review the material by practicing problem-solving. Going through previous assignments and quizzes can also be helpful. During the exam, be sure to read each question carefully and double-check your solutions. To improve your quiz score, it's essential to make sure you understand the

material, review your mistakes from past quizzes, and learn how to manage your time efficiently. If you find a particular problem challenging, move on to the next one and come back to it later.

Workload and Assistance: There will be a grader and a recitation TA for Thursday to go over extra problems.

GRADING

Grading Matrix:

	Instrument Value (points)	Total
Quizzes	20%	
...		
Online HW Assignments	20%	
Mid-term Exams	45%	
Final Exam	15%	
Total:	100	

Grade Determination as in D2L:

A = 400 – 360 pts; i.e. 90% or better

B = 320 – 359 pts; i.e. 80 – 89 %

C = 280 – 319 pts; i.e. 70 – 79 %

D = 240 – 279 pts; i.e. 60 – 69 %

F = 239 pts or below; i.e. less than 60%

TECHNOLOGY REQUIREMENTS

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.

- **TI-83/84** or other calculators with similar capability is recommended.
- **A printer** to print homework and tests is recommended.
- **Scanner/digital camera/cell phone** that you can take pictures of your work and submit them to the Virtual Basket under D2L.

- **D2L:** As a student enrolled at Texas A&M University-Commerce, you have access to D2L. You will obtain course materials through D2L, (MyLeo→ APPs→ D2L). The course materials are only for this course. You cannot distribute the course materials without the permission of the instructor. You also have an email account via myLeo - all my emails sent from D2L (and all other university emails) will go to this account, so please be sure to check your email regularly.

BROWSER SUPPORT

D2L is committed to performing key application testing when new browser versions are released. New and updated functionality is also tested against the latest version of supported browsers. However, due to the frequency of some browser releases, D2L cannot guarantee that each browser version will perform as expected. If you encounter any issues with any of the browser versions listed in the tables below, contact D2L Support, who will determine the best course of action for resolution. Reported issues are prioritized by supported browsers and then maintenance browsers.

Supported browsers are the latest or most recent browser versions that are tested against new versions of D2L products. Customers can report problems and receive support for issues. For an optimal experience, D2L recommends using supported browsers with D2L products.

Maintenance browsers are older browser versions that are not tested extensively against new versions of D2L products. Customers can still report problems and receive support for critical issues; however, D2L does not guarantee all issues will be addressed. A maintenance browser becomes officially unsupported after one year.

Note the following:

- Ensure that your browser has JavaScript and Cookies enabled.
- For desktop systems, you must have Adobe Flash Player 10.1 or greater.
- The Brightspace Support features are now optimized for production environments when using the Google Chrome browser, Apple Safari browser, Microsoft Edge browser, Microsoft Internet Explorer browser, and Mozilla Firefox browsers.

DESKTOP SUPPORT

Browser	Supported Browser Version(s)	Maintenance Browser Version(s)
Microsoft® Edge	Latest	N/A
Microsoft® Internet Explorer®	N/A	11
Mozilla® Firefox®	Latest, ESR	N/A
Google® Chrome™	Latest	N/A
Apple® Safari®	Latest	N/A

TABLET AND MOBILE SUPPORT

Device	Operating System	Browser	Supported Browser Version(s)
Android™	Android 4.4+	Chrome	Latest
Apple	iOS®	Safari, Chrome	<p>The current major version of iOS (the latest minor or point release of that major version) and the previous major version of iOS (the latest minor or point release of that major version). For example, as of June 7, 2017, D2L supports iOS 10.3.2 and iOS 9.3.5, but not iOS 10.2.1, 9.0.2, or any other version.</p> <p>Chrome: Latest version for the iOS browser.</p>
Windows	Windows 10	Edge, Chrome, Firefox	Latest of all browsers, and Firefox ESR.

- You will need regular access to a computer with a broadband Internet connection. The minimum computer requirements are:
 - 512 MB of RAM, 1 GB or more preferred
 - Broadband connection required courses are heavily video intensive
 - Video display capable of high-color 16-bit display 1024 x 768 or higher resolution
- You must have a:
 - Sound card, which is usually integrated into your desktop or laptop computer
 - Speakers or headphones.
 - *For courses utilizing video-conferencing tools and/or an online proctoring solution, a webcam and microphone are required.

- Both versions of Java (32 bit and 64 bit) must be installed and up to date on your machine. At a minimum Java 7, update 51, is required to support the learning management system. The most current version of Java can be downloaded at: [JAVA web site http://www.java.com/en/download/manual.jsp](http://www.java.com/en/download/manual.jsp)
- Current anti-virus software must be installed and kept up to date.

Running the browser check will ensure your internet browser is supported.

Pop-ups are allowed.
 JavaScript is enabled.
 Cookies are enabled.

- You will need some additional free software (plug-ins) for enhanced web browsing. Ensure that you download the free versions of the following software:
 - [Adobe Reader https://get.adobe.com/reader/](https://get.adobe.com/reader/)
 - [Adobe Flash Player \(version 17 or later\) https://get.adobe.com/flashplayer/](https://get.adobe.com/flashplayer/)
 - [Adobe Shockwave Player https://get.adobe.com/shockwave/](https://get.adobe.com/shockwave/)
 - [Apple Quick Time http://www.apple.com/quicktime/download/](http://www.apple.com/quicktime/download/)

At a minimum, you must have Microsoft Office 2013, 2010, 2007 or Open Office. Microsoft Office is the standard office productivity software utilized by faculty, students, and staff. Microsoft Word is the standard word processing software, Microsoft Excel is the standard spreadsheet software, and Microsoft PowerPoint is the standard presentation software. Copying and pasting, along with attaching/uploading documents for assignment submission, will also be required. If you do not have Microsoft Office, you can check with the bookstore to see if they have any student copies.

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

NOTE: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

BRIGHTSPACE SUPPORT

NEED HELP?

STUDENT SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

TECHNICAL SUPPORT

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778 or click on the **Live Chat** or click on the words "click here" to submit an issue via email.



SYSTEM MAINTENANCE

D2L runs monthly updates during the last week of the month, usually on Wednesday. The system should remain up during this time unless otherwise specified in an announcement. You may experience minimal impacts to performance and/or look and feel of the environment.

INTERACTION WITH INSTRUCTOR STATEMENT

Student course-related questions or concerns through email are answered usually within 24 hours during week days (M-F). Feedback on assessments will be provided within 7 days after the assignment is submitted.

My primary form of communication with the class will be through the official university 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 D2L Email address available to me through MyLeo and in Announcements. It will be your responsibility to check your official university Email and Announcements regularly.

Discussions: This space is for students to communicate with each other. I may visit Discussions and join your discussion. Please feel free to answer one another's questions. I will check answers (as well as questions) for correctness, but do not hesitate to respond to a posting if you feel you can answer the question thoroughly and directly.

STUDENT ACADEMIC RESOURCES

Math Skills Center (MSC): Free tutoring service offered by the Mathematics department. It will be offered in an online format this summer, as courses in the D2L course management system. The MSC will be open during their normal summer hours of Monday - Thursday, 10am - 2pm, and will offer tutoring through Calculus 1, with other courses optional to the tutor, depending on the tutor's experience and willingness to assist.

The TAMUC One Stop Shop - provides as many student resources as possible in one location.

<http://www.tamuc.edu/admissions/oneStopShop/>

The TAMUC Academic Success Center provides academic resources to help you achieve academic success. <http://www.tamuc.edu/CampusLife/CampusServices/AcademicSuccessCenter/default.aspx>

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures

Policy for Reporting Problems with eCollege

If students encounter D2L-based problems while submitting assignments and assessments, the following procedures MUST be followed.

1. Students must report the problem to the help desk. You may reach the helpdesk at helpdesk@online.tamuc.org or 1-866-656-5511
2. Students MUST file their problem with the helpdesk and obtain a helpdesk ticket number
3. Once a helpdesk ticket number is in your possession, students should email me to advise me of the problem and to provide me with the helpdesk ticket number
4. At that time I will call the helpdesk to confirm your problem and follow up with you.

PLEASE NOTE: Your personal computer/access problems are not a legitimate excuse for filing a ticket with the help desk. You are strongly encouraged to check for compatibility of your browser BEFORE the course begins and to take the eCollege tutorial offered for students who may require some extra assistance in navigating the eCollege platform. ONLY D2L-based problems are legitimate.

SYLLABUS CHANGE POLICY

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

University 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.

AI use in course

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

A&M-Commerce Supports Students' Mental Health

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

Regarding the University's Pandemic Response

COVID-19 Statements from the University

The COVID-19 situation is constantly evolving and is subject to change based on the recommendations and requirements given by the CDC, state and local leaders, and the Texas A&M University System.

- 1) Students, faculty, and staff are strongly encouraged to get vaccinated, wear a mask in public indoor settings, and wash hands frequently. These actions can reduce the spread of COVID-19.
- 2) The following requirements will be in place this fall:
 - a. Students, faculty and staff must participate in the mandatory COVID-19 testing program at intervals designated by the university.
 - b. Students, faculty and staff who test positive or have been identified as a close contact may be required to quarantine/isolate consistent with current CDC guidance as shown [here](#).
 - c. Students, faculty and staff who test positive for COVID-19 are required to isolate. Those with COVID-19 symptoms or who have had close contact with someone (within 6 feet of someone for a cumulative total of 15 minutes or more over a 24- hour period) who received a positive test result for COVID-19 are required to email the A&M-Commerce Emergency Operations Center at eoc@tamuc.edu for additional guidance on how to proceed.
 - d. Students new to the university must confirm they've read and agree to adhere to the following guidelines. Please click the following link to complete the acknowledgment: [COVID-19 Acknowledgment](#).
- 3) Students who do not comply with mandatory COVID-19 reporting, testing and/or quarantine/isolation requirements will go through the Student Conduct Process. This may result in a student facing possible separation (i.e., suspension or expulsion) from the University or being considered a student "not in good standing."
- 4) Please go to the [University home page](#) for reading the entire Fall 2021 COVID-19 Management and Guidance Plans for details, and scheduling a COVID test.

ADA STATEMENT

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 162

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

Fax (903) 468-8148

Email: studentdisabilityservices@tamuc.edu

Website: [Office of Student Disability Resources and Services](#)

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](#).

<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum:

[Netiquette http://www.albion.com/netiquette/corerules.html](http://www.albion.com/netiquette/corerules.html)

Copyright Policy

The handouts used in this course are copyrighted. By "handouts," I mean all materials generated for this course, which include but are not limited to syllabi, lecture notes, quizzes, exams, in-class materials, review sheets, projects, and problems sets. Because these materials are copyrighted, you do not have the right to copy and distribute the handouts.

NONDISCRIMINATION NOTICE

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

COURSE OUTLINE / CALENDAR

TENTATIVE WEEKLY SCHEDULE:

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by email and in-class announcements.

WEEKLY SCHEDULE:

(Week 1). 1.4, 1.5,
(Week 2). 1.6, 1.7, 1.8,
(Week 3). 2.1, 2.2, 2.3
(Week 4). 2.4, 2.5, 2.6
(Week 5). 2.7, 2.8, 2.9
(Week 6). Exam 1
(Week 7). 3.1, 3.2, 3.3
(Week 8). 3.4, 3.5, 3.6
(Week 9). 3.7, 3.8, 3.9
(Week 10). 4.1, 4.2, 4.3
(Week 11). 4.4, 4.5
(Week 12). Exam 2
(Week 13). 6.1, 6.2, 6.3
(Week 14). 6.4 7.1
(Week 15). Review week
(Week 16). FINAL WEEK

