



MATH 2414–01E: Calculus II
Spring 2024 Syllabus

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Office Hours: Mon, Tue, Wed, Thurs 10:00am–11:30pm, or by appointment*
Preferred form of communication: Email
Communication Response Time: Usually within 24 hours during weekdays, M-F.

Course Information

MATH 2414–01E: Calculus II

CRN # 22151, credits: 4

Meets 1/10/2024 through 5/10/2024

Mon, Tue, Wed, Thurs, Fri* 9:00am–9:50am Campus: Main Building: BIN Room: B330

*Friday is a **mandatory** recitation class. A Graduate Assistant will conduct this class.

Graduate Assistant Info:

TBA.

Course material

- Textbook: Stewart, J. (2021). Calculus (9th Edition). Boston: Cengage Learning. (Chapters 5-11) ISBN: 9780357043189.
- WebAssign Access Key: **tamuc 0755 6959**, link: <https://www.getenrolled.com/?courseKey=tamuc07556959>

Prerequisite

MATH 2413 with a minimum grade of C or better. Students should review topics from prior courses as needed using old notes and books.

Course description

Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals.

Learning Outcome

Chapters 5–11 will be covered. In this course, you will learn the following topics:

- Identify inverse functions and use properties of differentiation with these forms.
- Recognize the indeterminate forms and use L'Hospital's rule effectively.

- Use integration techniques including integration by parts, trigonometric substitution, and partial fraction decomposition to evaluate integrals.
- Use the idea and techniques of integration to solve problems involving arc lengths, areas, and volumes.
- Evaluate derivatives and integrals using parametric equations and polar coordinates.
- Understand and relay to the instructor comprehension of convergence of sequences and series. This includes the selection and use of the appropriate tests for conditional and absolute convergence.

Calculator

A graphing calculator (e.g., TI-84) is highly recommended.

Webpage

Course-related materials (notes, HW, handouts, etc.) will be posted on the MyLeo Online (powered by D2L Brightspace). It is your responsibility to read the files and your email regularly for any important announcements.

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.

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here: <https://community.brightspace.com/support/s/contactsupport>

Grading criteria

The following grading weights (percentage) show how your total score is going to be calculated at the end of the semester:

Grade distribution		Tentative dates
Midterm I	25%	3 rd week of February
Midterm II	25%	1 st week of April
Quizzes	10%	Weekly
HW	10%	Weekly
Final	30%	Wednesday, May 8th, 8am–10am

All exams will held in lecture class and quizzes will be given in Friday classes (conducted by the TA). The final will be held as per the university policies.

Here is how grades will be awarded based on your weighted numerical score (out of 100):

A : ≥ 90 , B: 80 – 89.9, C: 70 – 79.9, D : 60 – 69.9, F: < 60,

Midterms: There will be two midterms that weigh 50% of the overall grades. Midterms will be heavily based on the HW, quizzes, and problems solved in classes (this does not mean there will be no questions from the notes and handouts!). You **must** study notes/handouts for proofs and derivations.

HW/Quizzes: HW will be assigned using WebAssign (<https://www.getenrolled.com/?courseKey=tamuc07556959>). There will be approximately **10** quizzes. **No** late submission will be allowed. Proper instruction for the quizzes will be provided in class (and/or via online announcement). Quizzes will be given based on the problems assigned on your HW (of course, you will find the modified version

of problems assigned on the HW). This means, if you do not study and understand yours HW (and relevant topics), you may not perform well on the quizzes. This will directly or indirectly impact your overall grade.

Final: The final will be a comprehensive exam. But it will be heavily weighted on the recent topics. Only the topics from Midterms that are the most relevant will be covered in the final. The final will be held on **Wednesday, May 8th, 8am–10am (as per the university schedule)**.

Attendance and Class Performance: Attendance is mandatory. There will be many class activities that involve problem solving and discussion. Based on the performance in class, your grade will be curved at the end.

Make-ups

No makeup midterms/exams will be given (except for religious holidays or officially sanctioned extracurricular activities as specified by the university policies). If you miss an exam for a medical reason, you are supposed to provide a medical excuse from a doctor or the TAMU–Commerce Student Health Service.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

- **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
Any modifications will be announced in class. Thus, it is the student's responsibility to always come to class. (Most important announcements may also be put online or send via email; however, it is your responsibility to come to class to hear any important announcements such as corrections to homework and other stuff.)

University Specific Procedures/Policies

Following are some important links for University policies. You must follow these rules strictly.

- **TAMUC Attendance:** For more information about the attendance policy please visit the Attendance webpage and <http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>
- **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: <https://www.britannica.com/topic/netiquette>.
- **Academic Integrity:** Students at Texas A&M University–Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

Undergraduate Academic Dishonesty 13.99.99.R0.03

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

Graduate Student Academic Dishonesty 13.99.99.R0.10

<https://inside.tamuc.edu/aboutus/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10.pdf>

- **Student Disability Resources and Services:** 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

<https://www.tamuc.edu/student-disability-services/>.

- **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.
- **Tutoring:** The Math Lab is designed to supply free tutoring to students and is aimed at helping students at the remedial, Freshman, and Sophomore levels. Tutoring for higher-level courses is available, dependent on each tutor’s ability. The Math Lab is located in Binnion Hall 328. Please remember to sign-in when you use the math lab. For more details: <https://rb.gy/seiea>.
Additional tutoring help available at: <https://rb.gy/pd5lt>.
- **Writing Center:** Students are encouraged to visit the A&M–Commerce Writing Center for writing assistance. Visit the website at: <https://www.tamuc.edu/writing-center/>
- **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.
- **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.

- **AI Use in Courses:**

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

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The course materials are only for use in this course. You cannot distribute the course materials without permission of the instructor.

Table 1: **Tentative Course Outline**

Weeks	1st day of week	Sections to be covered
Week 1	10-Jan	5.1, 5.2
Week 2	15-Jan	No class on 15 Jan — 5.3, 5.4, 5.5
Week 3	22-Jan	6.1, 6.6, 6.7, 6.8
Week 4	29-Jan	7.1, 7.2, 7.3
Week 5	5-Feb	7.4, 7.5, 7.6
Week 6	12-Feb	7.7, 7.8, 8.1
Week 7	19-Feb	8.2, Review, Exam 1
Week 8	26-Feb	10.1, 10.2, 10.3
Week 9	4-Mar	10.4, 11.1, 11.2
Week 10	11-Mar	3/11-3/15 spring break No class
Week 11	18-Mar	11.3, 11.4
Week 12	25-Mar	11.5, 11.6
Week 13	1-Apr	11.7, 11.8
Week 14	8-Apr	Review, Exam 2
Week 15	15-Apr	11.9, 11.10
Week 16	22-Apr	11.11
Week 17	29-Apr	No class on 1-3 Review for Final Exam
Week 18	4-May	Final