

MATH 2414.01E - CALCULUS II

COURSE SYLLABUS: FALL 2026

AUGUST 20-DECEMBER 11, 2026

Instructor: Dr. Mehmet Celik

Course and CRN: MATH 2414.01E (CRN: 81694)

Office Hours: On-Campus

Monday & Wednesday: 9:30 AM-11:00 AM

Tuesday & Thursday: 9:00 AM-10:00 AM

or by appointment.

University Email Address: Mehmet.Celik@etamu.edu

Preferred Form of Communication: Email

Communication Response Time: Student course-related questions or concerns sent by email are usually answered within 24 hours during weekdays, Monday through Friday.

Class Meeting Time: MTWRF 8:00 AM-8:50 AM (Monday-Thursday are lectures/discussions and Friday is a required study session; four lecture hours and one study-session hour each week)

Class Location: Campus: Main; Building: Education South, Sowers; Room: 101

Office Location: Frank Young Education North, Room 111

Final Exam: Monday, December 7, 2026, 8:00 AM-10:00 AM

COURSE INFORMATION

Materials

Textbook(s) Required: James Stewart, Calculus, 9th Edition. ISBN-13: 978-1337624183.

The material covered during the semester will include selected sections from Chapters 4, 5, 6, 7, 8, and 11. The expected section list is: 4.5; 5.1-5.5; 6.1-6.6; 6.8; 7.1-7.8; 8.1-8.2; 11.1-11.9. We may occasionally cover enrichment activities not in the text.

Software/Online Homework Required: WebAssign

WebAssign access is required for this course. The WebAssign class key and registration instructions will be posted on D2L on the first day of class. Students are responsible for enrolling in WebAssign promptly and completing homework by the posted deadlines.

Course Description: Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals. Prerequisites: MATH 2413 with a minimum grade of C.

A TI-83/TI-84 or equivalent graphing calculator is recommended. See the Technology Requirements section for the full calculator policy.

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, East Texas A&M 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, in-class activities, and/or exams.
2. Oral, Visual, and Written Communication Skills: Will be measured through one or more of the following: quizzes, projects, in-class activities, and/or exams.
3. Empirical and Quantitative Skills: Will be measured through one or more of the following: quizzes, projects, in-class activities, and/or exams.

Course-Specific Learning Outcomes: Upon successful completion of this course, students should be able to:

1. Evaluate definite, indefinite, and improper integrals using appropriate integration techniques.
2. Apply definite integrals to problems involving area, volume, arc length, and selected physical applications.
3. Analyze parametric equations and polar curves and compute associated geometric quantities.
4. Determine the convergence or divergence of sequences and infinite series using appropriate tests.
5. Construct and use power series and Taylor series to represent and approximate functions.

COURSE REQUIREMENTS

Instructional Methods: This course will use a flipped classroom approach. Before class meetings, students will receive information, videos, notes, or other resources to prepare for the day's activities. At the beginning of each class meeting, the instructor will provide a 10-15 minute summary lecture to highlight the main concepts, methods, and common questions. The remaining class time will emphasize guided problem-solving, group discussion, and practice with computational and conceptual problems.

Monday through Thursday meetings will be used primarily for lectures, discussions, guided examples, and flipped-classroom activities. The Friday meeting is a required study session/recitation intended to support practice, review, and preparation for assessments. Students are expected to complete pre-class work, participate actively during class, and complete assigned WebAssign and D2L work by the posted deadlines.

Course Evaluation Methods

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

- In-class participation
- Quizzes
- WebAssign homework
- Exam 1
- Exam 2
- Comprehensive final exam

Exams

There will be two midterm exam scores and one comprehensive final exam. Each midterm exam will be proctored in class unless the instructor announces a different arrangement in advance. Make-up exams are available only in the case of a documented emergency, an approved university-authorized absence, or an approved accommodation. Students should notify the instructor as soon as reasonably possible and provide documentation when required.

- Exam 1: Week 6, Tuesday, September 22 and Thursday, September 24, during regular class time.
- Exam 2: Week 13, Tuesday, November 10 and Thursday, November 12, during regular class time.
- Comprehensive Final Exam: Monday, December 7, 2026, 8:00 AM-10:00 AM

Exams may include a combination of multiple-choice, true/false, short-answer, and written-response or workout problems. Written-response problems may require students to show complete supporting work for full credit. Exam coverage, review materials, and any special instructions will be posted in D2L before each exam. A review session will be provided before each midterm exam and before the comprehensive final exam.

Quizzes

There will be regular quizzes posted in D2L or administered in class. There will be no make-ups for missed quizzes; instead, the best 10 quiz scores will be counted. Each quiz submission must be entirely your own work. Unauthorized collaboration, copied work, AI-generated solutions, online solvers, answer-sharing websites, symbolic algebra systems, or other unauthorized resources will be treated as academic misconduct.

In-class Participation

During class meetings, students will work on problems associated with that day's concepts. To receive participation credit, students will be asked to submit a certain number of fully completed problems, reflection responses, or activity sheets. While group work is encouraged, each student must submit their own solutions. Further details will be shared on the first day of class.

Online Homework Assignments

This course includes an online homework component through WebAssign, which supplements the textbook. There will be a WebAssign assignment for each section covered in the course. You will have unlimited attempts on each problem until the assignment's due date, and only your highest score will be recorded. Since quiz and exam questions will often reflect variations of the homework problems, it is strongly recommended that you complete all assigned problems thoroughly and on time.

The WebAssign class key and setup instructions will be posted on D2L on the first day of class. A WebAssign assignment will be provided for each assigned textbook section. Only the 25 highest WebAssign assignment scores will be included in the course grade; the remaining scores will be dropped. Because the lowest WebAssign scores are dropped, missed or late homework assignments generally cannot be made up.

Attendance and Engagement

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. Students are responsible for informing the instructor of absences and for making up missed work when allowed by course and university policy. Coordination with fellow students for class notes is recommended if a student cannot attend class. Consistent attendance and active participation will support success in this course.

The key to success - Flipped Classroom Preparation

Students should watch assigned lecture videos or review assigned notes before class meetings and then use class time to engage in active learning. To take effective notes, pause and replay videos as needed, write down questions, and bring those questions to class or office hours. To participate effectively in class, ask questions, fully participate in activities, collaborate with peers when permitted, and seek support when needed.

Workload and Assistance

Students should plan to spend approximately 8-12 hours per week outside class reviewing course material, watching assigned videos, completing WebAssign homework, preparing for quizzes, and studying for exams. Some weeks, particularly exam weeks, may require additional time. If you need help, attend office hours or reach out by email. I typically respond to emails within 24 hours on weekdays, Monday through Friday.

GRADING

This course will be graded on a total points system, with a maximum of 400 points available. Your final grade will be determined solely by your performance on the assigned evaluation components: in-class participation, quizzes, WebAssign homework, two midterm exams, and a comprehensive final exam. No extra credit assignments will be provided.

Grading Matrix

Instrument	Value (points)	Total
In-class Participation	85% of the total participation	40
Quizzes	Best 10 quiz scores	30
WebAssign Homework	Best 25 online homework assignments	30
Midterm Exams	2 midterm exams at 100 points each	200
Final Exam	One comprehensive final exam at 100 points	100
Total		400

Grade Determination:

A = 360-400 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 = 0-239 pts; i.e. less than 60%

Final grades are based on total points earned out of 400. No extra credit will be offered. Final point totals will be rounded to the nearest whole point using standard mathematical rounding.

TECHNOLOGY REQUIREMENTS

Students are expected to check their MyLeo email and D2L Brightspace announcements regularly. Students will need access to MyLeo, D2L Brightspace, and any required course software for course materials, announcements, assignments, and grades.

Students must be able to scan handwritten work into a single PDF file when required. A scanner or a cell phone with a scanning app, such as Adobe Scan or a similar app, is acceptable. Phones may be used for

scanning permitted homework or assignment submissions, but they may not be used during exams unless explicitly approved by the instructor.

Access to a printer is helpful for printing handouts, reviews, or practice exams. Access to Microsoft Word or compatible software may be helpful for typed assignments, reports, or project submissions.

A TI-83/TI-84 or equivalent graphing calculator is recommended when appropriate. Calculators or software with symbolic algebra, CAS, or automatic problem-solving capabilities are not allowed on quizzes or proctored exams unless explicitly approved by the instructor. Calculator memory may be cleared before and after proctored exams.

For D2L/Brightspace technical issues, students should contact Brightspace Technical Support. For third-party software issues, students should contact the appropriate vendor support. Students should document technical problems and email the instructor before the relevant deadline whenever possible. Technical issues reported after a deadline may not be accepted as a reason for late work.

ACCESS AND NAVIGATION

Students will need their campus-wide ID and password to log into MyLeo, D2L Brightspace, and other university systems. Students who do not know their campus-wide ID or have forgotten their password should contact the Center for IT Excellence.

Personal computer and internet connection problems do not excuse the requirement to complete all coursework in a timely and satisfactory manner. Each student should have a backup method for dealing with technology or internet problems. These methods might include a backup computer, a public library computer, an East Texas A&M campus computer lab, or another reliable backup location.

COMMUNICATION AND SUPPORT

BRIGHTSPACE SUPPORT

Students who have questions or difficulties with the course material should contact the instructor.

D2L Brightspace technical support is available 24 hours a day, seven days a week, at 877-325-7778. For university course-management support, students may contact Online@etamu.edu or 903-886-5511.

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. Students may experience minimal impacts to performance and/or the look and feel of the environment.

INTERACTION WITH INSTRUCTOR STATEMENT

Student course-related questions or concerns sent by email are usually answered within 24 hours during weekdays, Monday through Friday. Feedback on assessments will generally be provided within 7 days after submission, except near the end of the term when final grade submission deadlines may require a different timeline.

My primary communication with the class will be through official university email and D2L announcements. Students are responsible for checking both regularly.

STUDENT ACADEMIC RESOURCES

Math Skills Center (MSC): Free math tutoring may be available through the Math Skills Center/Math Lab and other university academic support services. Updated hours, locations, and access instructions will be posted in D2L or announced by the university.

The East Texas A&M Academic Success Center provides academic resources to help students succeed. Updated links and access instructions will be posted in D2L.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures

Reporting D2L and Course-Software Technical Problems

Students should contact Brightspace Technical Support for D2L issues and the appropriate vendor support for third-party software issues. Students should document technical problems and email the instructor before the relevant deadline whenever possible. Technical issues reported after a deadline may not be accepted as a reason for late work. Personal computer or internet access problems are not a guaranteed excuse for missed coursework.

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 through university email and/or D2L announcements.

University Specific Procedures

Academic Integrity

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.

In this course, unauthorized use of AI tools, online solvers, answer-sharing websites, symbolic algebra systems, or another person's work to complete quizzes, exams, homework, or submitted assignments is considered academic misconduct unless explicitly permitted by the instructor.

Cheating is defined as:

- Copying another's test or assignment
- Communication with another during an exam or assignment (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 acknowledgment
- 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 policy

East Texas A&M University 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 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

East Texas A&M University Supports Students' Mental Health

The Counseling Center at East Texas A&M University, located in the Halladay Student Services, 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, students should consult the Counseling Center website or D2L resources.

ADA STATEMENT

The Americans with Disabilities Act 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.

Students who need disability-related accommodations should contact Student Disability Services, Velma K. Waters Library, Suite 162, at 903-886-5150 or StudentDisabilityServices@etamu.edu. The fax number is 903-468-8148. Students are encouraged to request accommodation letters near the beginning of the semester because accommodations are not retroactive.

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 Handbook and Student Code of Conduct.

Student Handbook: <https://www.etamu.edu/student-handbook/>

Student Code of Conduct: <https://www.etamu.edu/student-code-of-conduct/>

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

Rules of Netiquette: <https://www.albion.com/netiquette/corerules.html>

ETAMU Attendance

It is expected that students follow the guidelines set forth by the Class Attendance Policy in the current Undergraduate or Graduate Catalog, as applicable. Regular attendance and active participation are expected. Students who must miss class because of a university activity or documented emergency should notify the instructor in writing as early as possible.

If students represent an athletic team for this university, a departmental team, scholastic team, choir, or other group and must miss class or coursework, they should notify the instructor in writing with appropriate documentation as early as possible.

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 problem sets. Because these materials are copyrighted, you do not have the right to copy and distribute the handouts.

NONDISCRIMINATION NOTICE

East Texas A&M University 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 East Texas A&M University 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 East Texas A&M 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. Carrying Concealed Handguns on Campus—Rule 34.06.02.R1

Web

url:

<https://inside.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 East Texas A&M campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

COURSE OUTLINE / CALENDAR

Week	Dates	Topics / Assessments
Week 1	Aug. 20-21	Orientation; WebAssign setup; review; Section 4.5
Week 2	Aug. 24-28	Sections 5.1, 5.2, 5.3
Week 3	Aug. 31-Sept. 4	Sections 5.4, 5.5, 6.1
Week 4	Sept. 7-11	Labor Day, Sept. 7: university closed; Sections 6.2, 6.3, 6.4
Week 5	Sept. 14-18	Sections 6.5, 6.6, 6.8; review
Week 6	Sept. 21-25	Exam 1 assessments
Week 7	Sept. 28-Oct. 2	Sections 7.1, 7.2, 7.3
Week 8	Oct. 5-9	Sections 7.4, 7.5; Fall Break, Oct. 8–9: no classes
Week 9	Oct. 12-16	Sections 7.6, 7.7, 7.8
Week 10	Oct. 19-23	Sections 8.1, 8.2, 11.1
Week 11	Oct. 26-30	Sections 11.2, 11.3, 11.4
Week 12	Nov. 2-6	Sections 11.5, 11.6; review
Week 13	Nov. 9-13	Exam 2 assessments; Section 11.7
Week 14	Nov. 16-20	Sections 11.8, 11.9
Week 15	Nov. 23-27	Review and practice; Thanksgiving Break for students begins Nov. 25; university closed Nov. 26-27
Week 16	Nov. 30-Dec. 4	Comprehensive review; final exam preparation
Finals	Dec. 7-11	Comprehensive Final Exam: Monday, December 7, 2026, 8:00 AM-10:00 AM; all graded coursework due before the final exam unless otherwise announced

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated through university email and D2L announcements.