Sul Ross State University
Course Syllabus
MATH 2414-001, L01: Calculus II and Lab
Spring 2026

Instructor: Dr. Angela M. Brown
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Office Hours: 10-12 M, 2-4 W, 3:30-5 TR, others by appointment
Time and Place of Class Meetings: TR 11:00-12:15 ACR 206, Lab W 10-11:40 ACR 203

Course Prerequisites: Passing grades in MATH 2413 with a C or better (or equivalent, including passing appropriate placement exams.)

Mathematics Program Learning Objectives: The graduating student should be able to

- Apply knowledge of basic mathematics principles.
- Identify and provide valid proofs or solutions for theorems or problems.
- Recognize and dispute invalid mathematical statements by using counter-examples.

Course Objectives: Students will be able to apply knowledge of basic mathematical principles such as evaluating limits, differentiation, and integration. Students will be apply this knowledge to definite integrals and their applications. Students will be able to use different techniques of integrations and will be able to work improper integrals. Students will be able to find whether sequences are convergent or divergent using various techniques.

Marketable Skills: Mathematics BS

- Students Demonstrate Logical and Analytical Skills.
- Students Demonstrate Problem-Solving Using Analytic and Algebraic Methods.
- Students Use Technology in Problem-Solving and Presentation.
- Students Use Communication and Pedagogical Skills.

Required Textbooks: Calculus Concepts & Contexts, 4th ed, Stewart ISBN 0-495-55742-0. Homework will be assigned from the text.

Other Equipment Needed: paper and pencils. You may also want graph paper and a calculator.

Grading Scale: 90-100 A, 80-89 B, 70-79 C, 60-69 D, 59-Below F

Grading Policy:
Quizzes/Homework: 30%
Exams: 30%
Laboratories: 15%
Final Exam: 25%

The grade weighting will be as follows:

Quizzes will be given periodically, usually on Tuesdays or during Lab time.

Homework will be assigned daily. Homework will be graded on completion and accuracy. Copying answers out of the back of the book is plagiarism and will be prosecuted.

Assignments with their due dates will be posted on Blackboard.

No make-up exams will be given. If there is a valid reason for missing an exam, then the grade for the missed exam will be replaced by the grade on the final exam. Otherwise, a missed exam will be a zero. Exams will be closed notes, closed book, and no calculator will be allowed unless otherwise stated. Any restroom breaks need to be taken before an exam starts. You cannot leave the classroom in the middle of an exam under any circumstances.

Lab time will be used in a variety of ways. It may be used to answer questions we did not get to in class, extra assignments to gain a deeper understanding, or quizzes and exams. If exams are to be given during lab time, I will give ample notice.

Attendance Policy: Students are expected to attend every class. If class must be missed, the student is expected to get the notes from a classmate, and to check with me or on Blackboard for announcements and updated assignments.

Students are expected to arrive to class on time. If a student is perpetually late, they will be asked to not attend class unless they can arrive on time. If tardiness becomes a problem for the class as a whole, people who arrive late will not be permitted to enter the class. If this stricter policy becomes necessary, there will be an announcement made in class.

It is policy of the university to drop a student with a grade of "F" if 9 hours or more of class are missed. For this course that would be 6 or more class sessions missed. Absences for school related activities will not count in these 6 absences.

Cell Phone Policy: Cell phones are not allowed in class. They can not be used as calculators on any assignment. Any phone ringing during class will be taken up until the end of class. If a phone rings during a test or quiz, the student will forfeit their right to finish said test or quiz.

Americans With Disabilities Act: SRSU Accessibility Services. Sul Ross State University (SRSU) is committed to equal access in compliance with the Americans with Disabilities Act of 1973. It is SRSU policy to provide

reasonable accommodations to students with documented disabilities. It is the student's responsibility to initiate a request each semester for each class. Students seeking accessibility/accommodations services must contact Ronnie Harris, LPC, Counselor, at 432-837-8203 or email ronnie.harris@sulross.edu. Our office is located on the first floor of Ferguson Hall, room 112, and our mailing address is P.O. Box C122, Sul Ross State University, Alpine. Texas, 79832.

Counseling: Sul Ross has partnered with TimelyCare where all SR students will have access to nine free counseling sessions. You can learn more about this 24/7/365 support by visiting Timelycare/SRSU. The SR Counseling and Accessibility Services office will continue to offer in-person counseling in Ferguson Hall room 112 (Alpine campus), and telehealth Zoom sessions for remote students and RGC students.

Library Services: The Bryan Wildenthal Memorial Library and Archives of the Big Bend in Alpine offer FREE resources and services to the entire SRSU community. Access and borrow books, articles, and more by visiting the library's website, library.sulross.edu/. Off-campus access requires logging in with your LobolD and password. Librarians are a tremendous resource for your coursework and can be reached in person, by email (srsulibrary@sulross.edu), or by phone (432-837-8123).

No matter where you are based, public libraries and many academic and special libraries welcome the general public into their spaces for study. SRSU TexShare Cardholders can access additional services and resources at various libraries across Texas. Learn more about the TexShare program by visiting library.sulross.edu/find-and-borrow/texshare/ or ask a librarian by emailing srsulibrary@sulross.edu.

Mike Fernandez, SRSU Librarian, is based in Eagle Pass (Building D-129) to offer specialized library services to students, faculty, and staff. Utilize free services such as InterLibrary Loan (ILL), ScanIt, and Direct Mail to get materials delivered to you at home or via email.

Academic Integrity:. Students in this class are expected to demonstrate scholarly behavior and academic honesty in the use of intellectual property. A scholar is expected to be punctual, prepared, and focused; meaningful and pertinent participation is appreciated. Examples of academic dishonesty include but are not limited to: Turning in work as original that was used in whole or part for another course and/or professor; turning in another person's work as one's own; copying from professional works or internet sites without citation; collaborating on a course assignment, examination, or quiz when collaboration is forbidden.

Generative Artificial Intelligence (AI): The University does not recommend or endorse any specific AI tools or resources. Students should be aware that many generative AI tools (e.g., ChatGPT, Google Gemini, Microsoft Copilot) store user input and may use this data to train future models. For this reason, students should never upload or share personal, confidential, or identifiable information—such as names, ID numbers, health data, or assignment submissions containing such details—into any generative AI platform. When using AI tools, students should verify whether the tool complies with student privacy standards as indicated by the University. Faculty may recommend specific tools that better align with institutional data privacy policies, but ultimate responsibility for data protection rests with users. Students are encouraged to use faculty-recommended platforms when engaging in coursework involving generative AI. The University is not liable for any adverse experience or impact when students interact with these tools.

Student Responsibilities : All full-time and part-time students are responsible for familiarizing themselves with the Student Handbook and the Undergraduate & Graduate Catalog and for abiding by the University rules and regulations. Additionally, students are responsible for checking their Sul Ross email as an official form of communication from the university. Every student is expected to obey all federal, state and local laws and is expected to familiarize themselves with the requirements of such laws.

Classroom Climate of Respect: Importantly, this class will foster free expression, critical investigation, and the open discussion of ideas. This means that all of us must help create and sustain an atmosphere of tolerance, civility, and respect for the viewpoints of others. Similarly, we must all learn how to probe, oppose and disagree without resorting to tactics of intimidation, harassment, or personal attack. No one is entitled to harass, belittle, or discriminate against another on the basis of race, religion, ethnicity, age, gender, national origin, or sexual preference. Still, we will not be silenced by the difficulty of fruitfully discussing politically sensitive issues.

Supportive Statement: I am to create a learning environment for my students that supports various perspectives and experiences. I understand that the recent pandemic, economic disparity, and health concerns, or even unexpected life events may impact the conditions necessary for you to succeed. My commitment is to be there for you and help you meet the learning objectives of this course. I do this to demonstrate my commitment to you and to the mission of Sul Ross State University to create a supportive environment and care for the whole student as part of the Sul Ross Familia. If you feel like your performance in the class is being impacted by your experiences outside of class, please don't hesitate to come and talk with me. I want to be a resource for you.

Tutoring: The Lobo Den Tutoring Center offers FREE tutoring support to help you excel in your courses. Whether you need assistance in Writing, Math, Science, or other subjects, we're here to help!

Important Information:

Drop-in and Scheduled Appointments: Flexible options to fit your needs. Hours of Operation: Monday–Friday, 8:00 AM – 5:00 PM. Workshops: Attend our regularly hosted academic workshops on STEM topics and professional development, often in collaboration with specialized faculty. Location: BWML Room 128. Contact Us: For more information or to book an appointment, email tutoring@sulross.edu or call (432) 837-8726. Looking for additional support?

Tutor.com offers FREE 24/7 online tutoring in over 200 subjects, including specialized support for ESL and ELL learners with native Spanish-speaking tutors. Access Tutor.com via Blackboard: Log in to your Blackboard account to get started anytime, anywhere. Take advantage of these valuable resources to boost your confidence and performance in your classes. We look forward to helping you succeed!

Important Dates:

Jan 14	First day of classes
Jan 19	Martin Luther King Jr. Day (no class)
Jan 20	Last day for late registration and schedule changes Payment deadline for students, 4 p.m.
Jan 30	Census day (Last day to drop a 16-week term course without creating an academic record)
Mar 9-13	Spring Break (no class)
Mar 16	Mid-term
Apr 3	Last day to drop a session I course with a 'W'. Drops must be processed and in the University Registrar's
May 1, 4-6	Final Examinations (May 4 10:15-12:15 for this class)

Tentative Class Schedule-Subject to Change

Tuesday		Thursday	
		Jan 15	Area and Definite Integrals
Jan 20	Definite Integrals	Jan 22	Fundamental Theorem of Calculus
Jan 27	Fundamental Theorem of Calculus & Velocity	Jan 29	Substitution Rule
Feb 3	Integration by Parts	Feb 5	Additional Techniques
Feb 10	Exam 1	Feb 12	Improper Integrals
Feb 17	Improper Integrals	Feb 19	More about Area
Feb 24	Volumes of Revolutions	Feb 26	Cylindrical Shells
Mar 3	Cylindrical Shells	Mar 5	Exam 2
Mar 17	Sequences	Mar 19	Sequences
Mar 24	Sequences	Mar 26	Catch Up Day/Conference
Mar 31	Series	Apr 2	Series
Apr 7	Integral Test	Apr 9	Comparison Test/Other Convergence
Apr 14	Comparison Test/Other Convergence	Apr 26	Exam 3
Apr 21	Taylor and Maclaurin Series	Apr 2	Taylor and Maclaurin Series
Apr 28	Applications of Taylor Series		

Tentative Lab Schedule-Subject to change

Wednesdays	
Jan 14	Syllabus, Intro, Review, Lab 1: Intro to Integrals
Jan 21	Lab 2 Definite Integrals
Jan 28	Lab 3: Fundamental Theorem of Calculus
Feb 4	Lab 4: Integration Practice
Feb 11	Lab 5: Interesting Integrals
Feb 18	Lab 6: Area and Volume
Feb 25	Lab 7: Volume and Applications
Mar 4	Test Review/Lab Catch up
Mar 18	Lab 8: Convergence
Mar 25	Class Material on Series
Apr 1	Lab 9: Series
Apr 8	Lab 10: Series and Tests
Apr 15	Exam Review/Lab Catch Up
Apr 22	Lab 11:Taylor and Maclaurin Series
Apr 29	Finals Review