Sul Ross State University
Course Syllabus
MATH 2414-001: Calculus II
Spring 2023

Instructor: Dr. Angela Brown
Office Number: ACR 107B
Office Telephone Number: (432) 837-8223
Email Address: abrown4@sulross.edu
Office Hours: 10 am-12 pm and 2-4 pm M, 10 am-12 pm and 4-5 pm W, 10-11 TR, others by appointment
Time and Place of Class Meetings: TR 11:00-12:15 pm ACR 206; Lab W 2-3:50 pm ACR 206

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.

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

Grading Policy: The grade weighting will be as follows:
Quizzes/Homework: 30%
Exams: 30%
Laboratories: 15%
Final Exam: 25%

Quizzes will be given periodically, usually on Tuesdays or during Lab time. Homework will be assigned daily. Assignments with their due dates will be posted on Blackboard. Homework will be graded on completion and accuracy. Copying answers out of the back of the book is plagiarism and will be prosecuted. 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. 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 Disability Services. Sul Ross State University (SRSU) is committed to equal access in compliance with 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. Alpine students seeking accessibility/accommodations services must contact Mary Schwartze Grisham, M.Ed., LPC, SRSU's Accessibility Services Coordinator at 432-837-8203 (please leave a message and we'll get back to you as soon as we can during working hours), or email mschwartze@sulross.edu Our office is located on the first floor of Ferguson Hall (Suite 112), and our mailing address is P.O. Box C-122, SUI Ross State University, Alpine. Texas, 79832.

Library Services: The Bryan Wildenthal Memorial Library in Alpine. Offers 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 phone (432-837-8123).

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.

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.

Diversity Statement: I aim to create a learning environment for my students that supports a diversity of thoughts, perspectives and experiences, and honors your identities (including race, gender, class, sexuality, religion, ability, socioeconomic class, age, nationality, etc.). I also understand that the crisis of COVID, economic disparity, and health concerns, or even unexpected life events could 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 an inclusive 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.

Important Dates:

January 18	First Day of Classes
January 24	Last Day for Late Registration and Schedule Changes
February 2	12th Class Day
March 13-17	Spring Break
April 14	Last Day to Withdrawal from University or Drop Classes with a Grade of "W"" (by 4 pm)
May 10	Last Day of Classes
May 11	Dead Day
May 12, 15-17	Final Exams
May 19	Commencement

Tentative Schedule-Subject to Change

	Tuesday		Thursday
		Jan 19	Area and Definite Integrals
Jan 24	Definite Integrals	Jan 26	Fundamental Theorem of Calculus
Jan 31	Fundamental Theorem of Calculus & Velocity	Feb 2	Substitution Rule
Feb 7	Integration by Parts	Feb 9	Additional Techniques
Feb 14	**Exam 1**	Feb 16	Improper Integrals
Feb 21	Improper Integrals	Feb 23	More about Area
Feb 28	Volumes of Revolutions	Mar 2	Cylindrical Shells
Mar 7	Cylindrical Shells	Mar 9	**Exam 2**
Mar 21	Sequences	Mar 23	Catch Up Day/Conference
Mar 28	Sequences	Mar 30	Sequences
Apr 4	Series	Apr 6	Series
Apr 11	Integral Test	Apr 13	Comparison Test/Other Convergence
Apr 18	**Exam 3**	Apr 20	Comparison Test/Other Convergence
Apr 25	Taylor and Maclaurin Series	Apr 27	Taylor and Maclaurin Series
May 2	Applications of Taylor Series	May 4	Applications of Taylor Series
May 9	Catch up/review day		