

Sul Ross State University
Course Syllabus
MATH 2413-001: Calculus I
Fall 2019

Instructor: Dr. Angela Brown

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Office Hours: 9:30am-11:30am M, 9am-10am and 2pm-3pm W, 3:30-5pm TR, others by appointment

Time and Place of Class Meetings: TR 11:00am-12:15pm MAB 208; Lab W 3pm-4:50pm ACR 203

Course Prerequisites: Passing grades in MATH 1315 and MATH 1316 (or equivalent, including passing appropriate placement exams) or instructor approval.

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:

- The student should be able to find and understand limits
- The student will be able to identify continuous functions
- The student will be able to differentiate algebraic, logarithmic, exponential, and trigonometric functions
- The student will be able to integrate algebraic, logarithmic, exponential, and trigonometric functions
- The student will be able to apply these topics accordingly to “real world” problems.

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 at least weekly, either 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: Sul Ross State University is committed to equal access in compliance with the Americans With Disabilities Act of 1973. As an instructor I am required to give students reasonable accommodations in each course. It is the student's responsibility to initiate a request for accessibility services. Contact Mary Schwartz, the ADA Coordinator in Counseling and Accessibility Services Ferguson Hall, Room 112. Her phone number is 432-837-8203 or you can email her at mschwartz@sulross.edu.

Important Dates:

Aug 26	First Day of Classes
Aug 29	Last Day for Late Registration and Schedule Changes
Sept 2	Labor Day Holiday
Sept 11	12th Class Day-Last Day to Drop a Course Without Creating an Academic Record
Nov 15	Last Day to Withdrawal from University or Drop Classes with a Grade of “W” (by 4 pm)
Nov 27-29	Thanksgiving Holiday
Dec 6,9-11	Final Exams

Tentative Schedule-Subject to Change

	Tuesday		Thu
August 27	Introduction	Aug 29	Representin
Sept 3	New functions from old functions	Sept 6	Exp. and Log. fun
Sept 10	Tangent & Velocity	Sept 12	Limits of Funct.
Sept 17	Continuity	Sept 19	Exa
Sept 24	Limits with infinity	Sept 26	Derivatives and
Oct. 1	Derivative of a Functions	Oct. 3	Derivatives and what
Oct. 8	Derivatives of polynomials and exponentials	Oct. 10	Product and Derivatives
Oct. 15	Chain rule, Implicit Differentiation	Oct. 17	Exa
Oct. 22	Derivative of inverse trig fcns and log fcns	Oct. 24	Linear approximat
Oct. 29	Related Rates Minimum and Maximum Values	Oct. 31	Derivatives and shap
Nov. 5	L'Hospital's Rule	Nov. 7	Optim
Nov12	Newton's Method	Nov. 14	Antideriva
Nov. 19	Exam 3	Nov. 21	Definite
Nov26	Fundamental Theorem of Calculus	Nov. 28	Thanksgiv
December 3	Substitution		
Final Exam Monday December 9, 2019			