

Sul Ross State University
Course Syllabus
MATH 2311-001: Foundations of Elementary Mathematics II
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 2:00-3:15 ACR 205

Prerequisites: Satisfactory completion of MATH 2310 with a grade of C or better.

Required Textbooks: *Mathematics for Elementary Teachers with Activities*, 6th Edition, Sybilla Beckman. We will cover most of chapters 9 through 16.

Other Equipment Needed: paper and pencils.

Course Description: Second course in the mathematics content sequence for preservice elementary and middle school teachers. Topics include: functions, basic notions of geometry, measurement, and basic probability and statistics.

Course Objectives By the end of the course, the successful student will be able to:

- Understand and discuss mathematics content for pre-service elementary and middle school teachers
- Be able to relate the topics below to teaching at those levels
- Grasp and understand the reasons for addressing mathematical concepts rather than solving problems
- Demonstrate their understanding of the material with course exams

Mathematics Student 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.

Education Student Learning Objectives:

- Students will demonstrate effective lesson planning.
- Students will demonstrate written and oral proficiency through a variety of instructional strategies.
- Students will demonstrate effective evaluative processes for assessing student learning.

EC to 6 Teacher Competencies

- Competency 001 (Mathematics Instruction): The teacher understands how students learn mathematical skills and uses that knowledge to plan, organize and implement instruction and assess learning.
- Competency 002 (Number Concepts and Operations): The teacher understands concepts related to numbers, operations and algorithms and the properties of numbers.
- Competency 003 (Patterns and Algebra): The teacher understands concepts related to patterns, relations, functions and algebraic reasoning.
- Competency 004 (Geometry and Measurement): The teacher understands concepts and principles of geometry and measurement.
- Competency 005 (Probability and Statistics): The teacher understands concepts related to probability and statistics and their applications.
- Competency 006 (Mathematical Processes): The teacher understands mathematical processes and knows how to reason mathematically, solve mathematical problems and make mathematical connections within and outside of mathematics.

Competencies 001 and 006 are generic and will be addressed throughout the course. The others will be covered in their specified subjects. Competency 002 was covered in detail in MATH 2310 and will be continued to be touched on in this course.

Marketable Skills:

Program - Interdisciplinary Studies BS

- Students will acquire public speaking skills to a variety of audiences.
- Students will acquire writing skills for lesson plans and other scholarly documents.
- Students will acquire organizational skills to effectively manage time and meet deadlines.

Program - 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.

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:

Homework 15%

In Class Assignments (Packets): 10%

Notebook 10%

Exams: 40%

Project: 25%

Homework/in Class Assignments: Homework and/or in class assignments will be assigned daily and will be turned in through Blackboard by the due date. All will be graded on completion and accuracy. Copying answers out of the back of the book is plagiarism and will be prosecuted.

Presentations: One of the focuses of this class is problem solving as a pedagogical tool. In addition to mathematics, you will learn some of the pedagogy of mathematics appropriate for the elementary and middle school grades. Each student, will plan and present lessons, demonstrate problem solutions to the class or teach the class lessons from the text book. Also during the week (except for test days) some of you will be chosen to present solutions to homework problems.

Content Notebook: Notebooks will be required for each chapter. They will require big ideas, definitions, examples, and a conclusion/questions. You will need to include the TEKS that align to the chapters.

Exams: No make-up exams will be given. A missed exam will receive a grade of 0. Exams will be in class, closed notes and book. 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, but you are allowed to leave as soon as you have completed the exam.

General Policies: Class will start at the designated time and run for 1 hour and 15 minutes with no breaks. You are expected to be on time, attend every class meeting, stay for the duration of class time and come to learn. Do not schedule any appointments that will conflict with class time; if you have done so then I need documentation of the appointments.

You are expected to bring all necessary materials and take notes and participate. You are expected to turn-off and not to access any electronic, non-task oriented device such as cell/smart phones, tablets, and i-pods. A cell phone cannot be used as a calculator. Devices for recording the lecture are permitted; either audio or video, but please inform the instructor if you plan to do so.

If you come to class without your materials then you will be released from class to go get the appropriate materials. If you try to sleep during class or put your head on your desk you will be asked to leave class. Working on another

class is not allowed during class time. If you are causing others around you to miss lecture material then you will be asked to leave.

Any personal business must be conducted during office hours or by appointment. I will only discuss grades and attendance issues in my office. Classroom time is for the entire class.

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](https://timelycare.com/sulross). 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 commit-

ment 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!

Tentative Schedule-Subject to Change

	Tuesday	TEKS		Thursday	TEKS
			Jan 15	Expressions and Equations	3
Jan 20	Solving Equations	3	Jan 22	Algebraic Word Problems	3
Jan 27	Sequences	3	Jan 30	Functions	3
Feb 3	Geometry	4	Feb 5	Geometry	4
Feb 10	Measurement	1,4	Feb 12	Exam 1	
Feb 17	Measurement	1,4	Feb 19	Measurement	1,4
Feb 24	Area	4	Feb 26	Area	4
March 3	Area	4	Mar 5	Volume and Surface Area	4
Mar 17	Exam 2		Mar 19	Volume and Surface Area	4
Mar 24	Volume and Surface Area	4	Mar 26	Geometry of Motion	4
Mar 31	Geometry of Motion	3	Apr 3	Geometry of Motion	4
Apr 7	Statistics	5	Apr 9	Exam 3	
Apr 14	Statistics	5	Apr 16	Statistics	5
Apr 20	Probability	5	Apr 22	Probability	5
Apr 28	Probability	5			

Exam 4 Monday May 4 at 12:30 during the final exam period