

**Sul Ross State University**  
**Course Syllabus**  
**MATH 2311: Foundations of Elementary Mathematics II**  
**Spring 2021**

**Instructor:** Dr. Angela Brown

**Office Number:** ACR 107B

**Office Telephone Number:** (432)837-8223

**Email Address:** abrown4@sulross.edu

**Office Hours:** Virtual and by Appointment

**Time and Place of Class Meetings:** TTh 2:00-3:15 WSB 201

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

**Required Textbooks:** *Mathematics for Elementary Teachers with Activities*, 4th Edition, Sybilla Beckman ISBN13 978-0-321-82572-8. 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 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.

## 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.

**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/In Class Work/Quizzes: 25%

Notebooks: 10%

Exams : 40%

Presentations: 25%

For each class period, you will be expected to read your textbook before the material we will be covering that day.

Homework will be assigned periodically throughout the semester. Homework assignments must be complete and will be turned in on Tuesdays during class. Not all problems will be graded for content, but the assignment grade is contingent on completeness. If you use outside references, make sure to properly source the material. Copying answers from the back of the book will be considered plagiarism and will be prosecuted thusly.

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.

You will have two presentations this semester to be chosen from the sections to be covered. The presentation requirements will be given to you at a later date, but they follow the format of last semester.

There will be four exams. All exams will be closed notes, closed book, and no calculators allowed. No make-up exams will be given unless due to a school function.

The final exam is on Monday May 3 at 12:30 pm.

**General Policies:** Class will start at the designated time and run for 1hour 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 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.

**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 (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. Students seeking accessibility/accommodations services must contact Rebecca Greathouse Wren, LPC-S, 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 [rebecca.wren@sulross.edu](mailto:rebecca.wren@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, Sul Ross State University, Alpine, Texas, 79832.

**Library Services:** The Sul Ross Library 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](http://library.sulross.edu). Off-campus

access requires your LoboID and password. Check out materials using your photo ID. Librarians are a tremendous resource for your coursework and can be reached in person, by email (srsulibrary@sulross.edu), or phone (432-837-8123).

**Distance Education Statement:** Students enrolled in distance education courses have equal access to the university's academic support services, such as Smarthinking, library resources, online databases, and instructional technology support. For more information about accessing these resources, visit the SRSU website. Students should correspond using Sul Ross email accounts and submit online assignments through Blackboard, which requires secure login information to verify students' identities and to protect students' information. The procedures for filing a student complaint are included in the student handbook. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty and appropriate student conduct, as described in the student handbook. Students in web-based courses must maintain appropriate equipment and software, according to the needs and requirements of the course, as outlined on the SRSU website.

**Covid-19 Policies:** A mask must be worn at all times while in public spaces indoors or outdoors. This mask must cover your mouth and nose. Students not wearing a mask will be required to leave class for the day and can be reported to the Dean of Student Life. If you are sick or have been around someone who has tested positive for Covid-19, do not attend class in person. This course has an attached zoom section that you can attend. Other policies will be attached as a separate document.

#### **Important Dates:**

January 11	First Day of Classes
January 14	Last Day for Late Registration and Schedule Changes
January 18	MLK Holiday
January 27	12th Class Day
March 8-12	Spring Break
April 1	Last Day to Withdrawal from University or Drop Classes with a Grade of "W" (by 4 pm)
April 2	Good Friday Holiday
April 28	Last Day of Classes
April 29	Dead Day
April 30, May 3-5	Final Exams
May 7	Commencement

Tentative Schedule-Subject to Change

	Tuesday	Competency		Thursday	Competency
Jan 12	Expressions	3	Jan 14	Equations	3
Jan 19	Solving Equations	3	Jan 21	Algebraic Word Problems	3
Jan 26	Sequences	3	Jan 28	Functions	3
Feb 2	Geometry	4	Feb 4	Geometry	4
Feb 9	Measurement	1,4	Feb 11	Exam 1	
Feb 16	Measurement	1,4	Feb 18	Area	4
Feb 23	Area	4	Feb 25	Area	4
March 2	Area	4	Mar 4	Exam 2	
Mar 16	Volume and Surface Area	4	Mar 18	Volume and Surface Area	4
Mar 23	Geometry of Motion	4	Mar 25	Geometry of Motion	4
Mar 30	Exam 3		Apr 1	Statistics	5
Apr 6	Statistics	5	Apr 8	Statistics	5
Apr 13	Statistics	5	Apr 15	Probability	5
Apr 20	Probability	5	Apr 22	Probability	5
Apr 27	Probability	5			