

Sul Ross State University
Course Syllabus
MATH 2310-001: Foundations of Elementary Mathematics I
Fall 2020

Instructor: Dr. Angela M. Brown

Office Number: ACR 107B

Office Telephone Number: (432)837-8223

Email Address: abrown4@sulross.edu

Office Hours: 9:30-11:00 M, 10-11:30, 2-3 W, 3:30-5:00 T, others by appointment

Time and Place of Class Meetings: TR 2:00-3:15 pm LH 209

Course Prerequisites: Math 1315 or Math 1342 with a grade of C or better; or equivalent.

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:

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 an end-of-the-semester exam or presentation;

EC-6 Teaching Competencies

- Competency 013 (Mathematics Instruction) The teacher understands how students learn mathematical skills and uses that knowledge to plan, organize, and implement instruction and assess learning.
- Competency 014 (Number Concepts and Operation) The teacher understands concepts related to numbers, operations and algorithms and the properties of numbers.
- Competency 015 (Patterns and Algebra) The teacher understands concepts related to patterns, relations, functions and algebraic reasoning.
- Competency 016 (Geometry and Measurement) The teacher understands concepts and principles of geometry and measurement.

- Competency 017 (Probability and Statistics) The teacher understands concepts related to probability and statistics and their applications.
- Competency 018 (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.

Required Textbooks: *Mathematics for Elementary Teachers with Activities*, 4th Edition, Sybilla Beckman. ISBN 13 978-0-321-82572-8 We will cover most of chapters 1 through 8.

Other Equipment Needed: paper and pencils, other equipment may be needed as the course progresses.

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 Assignments: 25%

Notebook 10%

Exam 1: 15%

Exam 2: 15%

Projects: 15%

Exam 3: 15%

Homework/in Class Assignments: Homework and/or in class assignments will be assigned daily and homework 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 Student will be required to keep a content notebook for the topics covered as they relate to the TEKS for this subject. More information will be provided about this soon.

Exams: No make-up exams will be given. A missed exam will receive a grade of 0. Exams will take home, open 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.

Final Exam Date: Monday December 7, 12:30-2:30 pm.

General Policies: 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/pads and i-pods unless your textbook is on such a device. Again, a cell phone cannot be used as a calculator. Devices for recording the lecture are permitted; either audio or video, but unless there is a glitch, all lectures will be recorded and accessible through Blackboard. Any personal business must be conducted during office hours or by appointment. I will only discuss grades and attendance issues in my office or a by a zoom meeting during office

hours. 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. If you are attending in person, the seat you pick will be your assigned seat for the remainder of the semester. A seating chart will be made the first day and will be used to check attendance. This is not only to keep roll, but to be able to properly contact trace for the class.

If you are attending through Zoom, make sure your first name and at least last initial are visible while I take roll. Preference will be that your video is available, but please make sure you are properly dressed to attend class. Also, please have your mic muted unless you need to ask or answer a question.

You are expected to check your Sul Ross e-mail account. Absences due to school functions should be discussed with me ahead of time.

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.

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. 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. 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:

- August 24 First Day of Classes
- August 27 Last Day for Late Registration and Schedule Changes
- September 7 Labor Day
- September 9 12th Class Day
- November 11 Veteran’s Day Holiday
- November 13 Last Day to Withdrawal from University or Drop Classes with a Grade of “W” (by 4 pm)
- November 24 Last in person class day; all move online after this date
- November 25-27 Thanksgiving Holiday
- December 2 Last Day of Classes
- December 3 Dead Day
- December 4, 7-9 Final Exams

Tentative Schedule-Subject to Change

	Tuesday		Thursday
Aug 25	Intro Numbers and Base 10	Aug. 27	Numbers and Base 10
Sept. 1	Fractions	Sept. 3	Fractions
Sept. 8	Percents	Sept. 10	Percents
Sept. 15	Addition and Subtraction	Sept. 17	Addition and Subtraction
Sept. 22	Addition and Subtraction	Sept. 24	Exam 1 Assigned
Sep 29	Multiplication	Oct 1	Multiplication
Oct. 6	Multiplication	Oct. 8	Multiplication
Oct. 13	Multiplication	Oct. 15	Multiplication
Oct. 20	Division	Oct 22	Division
Oct. 27	Division	Oct 29	Division
Nov. 3	Exam 2 assigned,Ratios	Nov. 5	Ratios and Proportions
Nov. 10	Ratios and Proportions	Nov. 12	Ratios and Proportions
Nov. 17	Number Theory	Nov. 19	Number Theory
Nov. 24	Number Theory	Nov. 26	Thanksgiving Holiday
Dec 1	Exam 3 Assigned, Number Theory		