

Math 2310 Syllabus
Foundation of Elementary Mathematics I
Fall 2016 Sul Ross State University

Secs. 003: Tu, Th 2-3:15p in ACR 108
Instructor: Marina Kimball
Office: ACR 109E
Cell: 415-314-1307
E-mail: mkimball@sulross.edu
Office Hours: M, W, 11a:12p, 2-3p;
Tu, Th: 11a:12p; also available by appointment

Course Description: Examines the conceptual basis of K-8 mathematics. Provides opportunities to experience using manipulatives to model problem solving, numeration systems, operations, patterns and change, and number theory. Emphasizes quantitative, proportional, and algebraic reasoning. Includes content and mathematical practices based on the Common Core State Standards

Prerequisites: Completion of MATH 1342 with grade C or better .

Student Learning Objectives. Upon successful completion students should be able to:

- Apply an understanding of the theoretical foundations of mathematics focusing on numeration systems and operations as taught at the K-8 level in order to develop mathematical knowledge for teaching.
- Use various problem solving strategies and algebraic reasoning to create mathematical models, analyze real world scenarios, judge if the results are reasonable, and then interpret and clearly communicate the results.
- Use appropriate mathematics, including correct mathematical terminology, notation, and symbolic processes, and use technology to explore the foundations of elementary mathematics.
- Foster the mathematical practices in the Common Core State Standards.

Required Materials: Textbook: Mathematics for Elementary Teachers with Activities, 4th Edition, Sybilla Beckman. ISBN 13978-0-321-82572 - 8

You must also have access to Blackboard 9 and have an e-mail address that you check regularly be the e-address you have registered in Blackboard.

Grading Policy

The grading weighting will be as follows:

Homework/In class assignments – 25%

Projects – 15%

Exam 1 – 20%

Exam 2 – 20%

Exam 3 – 20%

Homework/in Class Assignments: Homework and/or class assignments will be assigned daily and homework will be taken up at the beginning of class on Thursday.

Homework 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 focus 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.

Attendance I will be taking attendance as university policy precludes you from missing 3 weeks or more of school for anything other than authorized university activities. The only absences that are *excusable* are for university activities and for test days that you make up for full credit according to the guidelines given above. To excuse an absence due to a university activity, in addition to what is ginning of mentioned previously, you must also spend 1.5 hours in the tutoring lab (more info below) and have this time documented by one of the tutors or lab workers. If you have 6 or more unauthorized, unexcused absences, I reserve the right to drop you from this class with a grade of 'F', which is university policy

A tutoring lab is available on the 2nd floor of Ferguson Hall. It will be staffed with advanced math students who will be eager to help you work on problems, but will not do your homework for you. The hours of the tutoring lab will be posted when they become available.

Classroom Conduct It is important to conduct yourself in a college classroom so that everyone can benefit from good communication between instructor and students. My goal is to create a classroom environment in which everyone can do their best work, learn, and make the best grades possible.

Please also be aware of building codes prohibiting food, beverages, tobacco (smokeless or otherwise) in the classroom and rules for Academic Honesty that you will find in the Sul Ross Student Handbook. Use commonsense to think of anything else that will allow you to learn and do the best work that you can in this class, and for me to better help you do your best work. Being registered for this course does not allow you to behave in any manner you wish during class. You must keep other people in mind. It is within university policy for me to send a student out of this class on a temporary or permanent basis if disruptions or interruptions like the types listed above persist.

Equal Access The university is committed to equal **access** in compliance with the Americans with Disabilities Act of 1990 (ADA) and section 504 of the Rehabilitation Act of 1973. If you have questions regarding accessibility, please consult with the ADA coordinator, Grace Duffy, in the Accessibility Services Office in Ferguson Hall 112, and feel free to discuss this with me in private. The mailing address is Accessibility Services, Box C-122, Sul Ross State University, Alpine, Texas 79832. The telephone number is (432) 837-8203; FAX: (432) 837-8363.

Important Dates

Mon, August 22	First day of classes, first day of late registration and schedule changes
Thu, September 25	Last day for late registration and schedule changes
Fri, Nov 11	Last day to withdraw from Univ. or drop with a grade of “W” by 4 pm in Registrar's Office
Wed- Fri, Nov 23-25	Thanksgiving Day holiday, No Classes
Thu , Dec 1	Dead Day, No classes
Fri, Mon-Wed, Dec 2,5-7	Final Exams, End of Term

Tentative Schedule Subject to Change

Fall 2016	Tuesday	Thursday
Week 1	Intro , Numbers and Base 10	Numbers and Base 10
Week 2	Fractions	Fractions
Week 3	Labor Day Holiday	Fractions
Week 4	Percent	Percent
Week 5	Addition and Subtraction	Test 1
Week 6	Addition and Subtraction	Addition and Subtraction
Week 7	Multiplication	Multiplication
Week 8	Multiplication	Multiplication
Week 9	Multiplication	Multiplication
Week 10	Division	Division
Week 11	Division	Division
Week 12	Division	Review
Week 13	Test 2	Ratios and Proportions
Week 14	Ratios and Proportions	Thanksgiving Holiday
Week 15	Number Theory	
Week 16	Final Exam	