

Math 2311 Syllabus
Foundation of Elementary Mathematics I
Spring 2017 Sul Ross State University

Secs. 003: M,W,F 10:00 – 10:50 am in ACR 108
Instructor: Marina Kimball
Office: ACR 109E
Cell: 415-314-1307
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Office Hours: M, W, 11:00 am – 12:00 pm, 2:00-3:00pm;
Tu, Th: 10:11am; 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 presentations - 40%

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 . 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 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

Wed. Jan 18	First day of classes, first day of late registration and schedule changes
Fri, Jan 20	Last day for late registration and schedule changes
Fri, Jan 27	Last day to withdraw from Univ. or drop with a grade of "W" by 4 pm in Registrar's Office
Mon-Fri, March 13-17	Spring Break, No Classes
Thu, May 4	Dead Day, No classes
Fri, May 5	Final Exams, End of Term

Tentative Schedule Subject to Change

Spring 2017	Monday	Wednesday	Friday
Week 1		Irrational Numbers	Chap 9 Sec 1 & 2
Week 2	Chap 9 Sec 3 & 4	Chap 9 Sec 5 & 6	Chap 9 Sec 7 & 8
Week 3	Chap 10 Sec 1	Chap 10 Sec 2	Chap 10 Sec 3
Week 4	Chap 10 Sec 4	Chap 10 Sec 5	Chap 11 Sec 1
Week 5	Chap 11 Sec 2	Test 1	Chap 11 Sec 3 & 4
Week 6	Chap 12 Sec 1 & 2	Chap 12 Sec 3 & 4	Chap 12 Sec 5 & 6
Week 7	Chap 12 Sec 7 & 8	Chap 12 Sec 9	Chap 13 Sec 1
Week 8	Chap 13 Sec 2 & 3	Chap 13 Sec 4 & 5	Chap 14 Sec 1
Week 9	Chap 14 Sec 2 & 3	Chap 14 Sec 4 & 5	Chap 14 6
Week 10	Chap 15 Sec 1	Test 2	Chap 15 Sec 2
Week 11	Chap 15 Sec 3	Chap 15 Sec 1	Chap 15 Sec 2
Week 12	Chap 15 Sec 3	Chap 15 Sec 4	Chap 16 Sec 4
Week 13	Chap 15 Sec 3	Chap 15 Sec 4	Chap 16 Sec 1
Week 14	Chap 16 Sec 2	Chap 16 Sec 2	Chap 16 Sec 4
Week 15	Number Theory		
Week 16	Final Exam		