

Course: Math 2010 – 200, Math for Elementary School Teachers I
Class meets Wednesday, 5:30 – 8:30 pm, 128W Washburn

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Office Hours: MWRF 12:30 – 1:00 pm, MTW 3:30 – 4:30,
2010 Library Time: W 4:30 – 5:15 pm

Text: *Mathematics for Elementary School Teachers*, 11th edition by Billstein, Libeskind, & Lott

Prerequisite: Passed Math 1050 with a C- or better

Course Description and Goals: This course will cover critical concepts necessary for elementary teachers to understand to competently teach young children. These concepts include problem-solving, sets, functions, numeration systems, number theory, rational numbers (fractions), decimals, percents, and integers.

“This course is about mathematics...We will explore ideas that may be familiar to you, but we will explore them from new perspectives, and we will also explore ideas that are new to you. **The overall goal is that you conceptualize the mathematics of this course deeply enough that you are able to converse about it.** The reason for this goal is that you will be teachers of children. Being capable of solving a problem or performing a procedure, by itself, will not enable you to add value to the school experience of your students. You must be able to speak about ideas, to explain them, and to recognize subtle aspects that might need special attention as you help your students understand them....

“This course is designed for prospective elementary school teachers. **It is not a review of elementary school mathematics, nor is it a methods course....**We want to give you the background you will need so that you will be able to offer coherent explanations that will help the children you teach make sense of the mathematics they will study with you. Helping children make sense of mathematics is our goal. To do that, you, as a future teacher, must first make sense of the mathematics. Thus, although the course is about mathematics rather than about methods of teaching mathematics, you will learn a great deal that will be helpful to you when you start teaching.” SDSU

Important Dates to Remember:

Labor Day (No Classes)	9/2
Last day to Add/Drop	9/12
Fall Break (No Classes)	10/17 – 10/18
Last Day to Add/Drop (\$25 fee)	10/31
Thanksgiving Break (No Classes)	11/27 – 11/29

Exam 1	9/12 – 9/18
Exam 2	10/10 – 10/16
Exam 3	11/14 – 11/20
FINAL EXAM	Wed Dec 11 th , 5:30 pm – 7:30 pm

Student Learning Outcomes:

At the conclusion of the Math 2010 course, students will be able to:

- Understand techniques of problem solving using a variety of methods and be able to solve many types of problems
- Understand principles, properties, and algorithms for whole numbers, integers, fractions/rational numbers, and decimals/percents.
- Understand properties of elementary number theory.

Course Grading:

Homework Assignments	20%
Quizzes, Problem of the Week	5%
Service Learning	5%
Midterms (3)	45%
<u>Final Exam</u>	<u>25%</u>
Total:	100%

Grade Scale: Grades will be assigned based on the following grading scale:

100-93% A	86-83% B	76-73% C	66-63% D
92-90% A-	82-80% B-	72-70% C-	62-60% D-
89-87% B+	79-77% C+	69-67% D+	59 - 0% E

This means you are not competing with your classmates and you can tell how you are doing at any point during the semester.

Attendance: Regular class attendance is expected of every student. A failing grade of "UW" (Unofficial Withdrawal) may be submitted by the instructor if a student ceases to attend or complete assigned coursework. To avoid the punitive impact of a "UW," it is the student's responsibility to officially withdraw from a course by submitting a "Change of Program" form no later than the tenth week of the semester. See the current catalog for more details.

Calculators: A scientific non-graphing calculator is allowed.

Homework: You can learn mathematics only by doing mathematics. Homework will be submitted for each section. Each assignment is due at the **beginning** of the next class. If you are not in class the day an assignment is due, you can send homework with a friend, you can scan it and email it to me (before class begins on the day it is due), or give it to me before the class period when it is due in order for it to be on time. **Homework will not be accepted late.** At the end of the semester, your three lowest homework scores will be used for extra credit.

Problems of the Week (POWs): POWs will be given almost weekly. They may not be made up. If you know you are going to miss a class where a POW will be assigned please get a copy from a classmate. Like homework, **POWs will not be accepted late.** At the end of the semester, your single lowest POW score will be used as extra credit. Each POW will be due the following class period.

Service Learning: During the semester you will have the opportunity to volunteer 10 hours of service. For example, you may tutor a student who is struggling with mathematics or help a teacher prepare or spend time working in her/his classroom. Write a journal entry for each visit. At the conclusion, you will write a reflection/evaluation of the experience. More detail about this assignment will be given later.

Class Tests: The three class midterms are scheduled as listed above. If any changes need to be made to this schedule, they will be announced in class a week prior to the test date. Midterm exams will be given in the testing center so bring a valid photo ID and be sure you are aware of their hours (www.snow.edu/testing). Exams will be taken during the scheduled exam time. Exceptions may be granted only under extreme circumstances. These circumstances must be discussed with me **BEFORE** the exam is missed if at all possible. Only valid excuses will be accepted. Wanting more time to study, or going on vacation are not valid excuses.

Final Examination: The cumulative final exam will be given as scheduled above. The exam will be administered in our regular classroom.

Expectations: Students are expected to

- Give this course their best effort
- Be on time to class with the appropriate materials
- Participate in whole class and group discussions
- Pay attention in class and take careful notes
- Ask questions when they don't understand the material being taught
- Complete all assignments on time
- Spend **at least 2** hours outside of class studying for every hour spent in class
- Be respectful of other students and the instructor
- Seek help when it's needed

Academic Honesty: Academic dishonesty includes, but is not limited to, cheating on tests or other course work, collusion (this includes telling others about problems on an exam or quiz), falsifying, and plagiarism. Evidence of, or strong suspicion of, academic dishonesty will result in a 0 for the test/work and possibly a failing grade for the course. Suspension may also be pursued.

The Americans with Disabilities Act (ADA): Students with medical, psychological, learning, or other disabilities desiring accommodations, academic adjustments, or auxiliary aids should contact the Accessibility Resource Center. The Americans with Disabilities Act (ADA) Coordinator in the Student Success Center determines eligibility for and authorizes the provision of appropriate services and aids.

For assistance, please contact the Accessibility Services Coordinator:

Richfield Campus – Cynthia Avery

Address: 800 W 200 S, Richfield, UT 84701

Phone: (435) 892-2205

Fax: (435) 893-2291

Email: cynthia.avery@snow.edu

Final Note: I reserve the right to make changes to the syllabus. Any changes will be announced in class. Students are responsible for such changes. Keep all your homework and other graded items. If you need to contest your grade at the end of the semester you will need proof of your scores.