

Course: Math 2020 – 200, Math for Elementary School Teachers II
Class meets Wednesday, 5:30 – 8:30 pm, 128W Washburn

Instructor: Janalee R. Jeffery
office: Washburn 170aW
phone: (435) 893-2229
e-mail: janalee.jeffery@snow.edu
website: <http://www.snow.edu/janaleej>
skype: Janalee – SCR Math

Office Hours: MWRF 12:30 – 1:00 pm, TR 2:30 – 3:30 pm, MW 4:00 – 5:00 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:

Martin Luther King Day (No Classes)	1/20
Last day to Add/Drop	1/28
Presidents Day (No Classes)	2/17
Last Day to Add/Drop (\$25 Fee)	3/18
Spring Break (No Classes)	3/24 – 3/28

Exam 1	2/6 – 2/12
Exam 2	3/13 – 3/19
Exam 3	4/17 – 4/23
FINAL EXAM	Wed Apr 30 th , 5:30 pm – 7:30 pm

Student Learning Outcomes:

At the conclusion of the Math 2020 course, students will understand:

- The statistical tools needed to describe data and make an appropriate graph for given data.
- Basic principles of probability and how to use them.
- English and Metric measurement systems and be able to perform unit conversions in each
- Principles and properties of geometric shapes.
- Principles and properties of geometry based on triangle congruence and how to use them.

Course Grading:

Homework Assignments	20%
Quizzes, In Class Activities	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.

Quizzes/In Class Activities: Short quizzes will be given intermittently to check your understanding. They will be unannounced and if missed, **cannot be made up.** In addition, we will occasionally have in class activities. These activities will be worked on in groups but submitted individually. Because of the nature of these assignments, **they cannot be made up.** At the end of the semester, your lowest Quiz/Class Activity score will be dropped.

Service Learning: During the semester you will have the opportunity to volunteer 6 hours of service tutoring elementary age students in mathematics. You do not need to spend all 6 hours with the same student. Write a journal entry for each tutoring session. At the conclusion, you will write a reflection/analysis of the experience. More details 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.