

College Arithmetic

MATH 250-56325

Mr. Steven Zook

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Reedley College

Spring 2011

Meeting Room: SOC 31

Meeting Days: MW

Meeting Time: 6:00 pm – 7:15 pm

Course Description: Arithmetic operations on whole numbers, fractions and decimals: application of order of operations to simplification of mathematical expressions. Word problems and applications of arithmetic using ratios, proportions and percents. Designed as a quick review of college arithmetic to prepare the student for MATH 256 or 101.

Required Text: Tom Carson, *Prealgebra*, Pearson Education, 3rd Edition, 2009.

Office Hours: I will not be holding office hours. However, I want to be available to you if you need assistance outside of class. I may be able to meet before or after class for a pre-arranged meeting. Do not hesitate to ask for help – it's what I am here for.

Attendance: As a student, you are expected to attend all classes for the entire period. Please be on time and ready to start when class is scheduled to begin. I ask this out of respect for your classmates and me. **Four (4) absences** may result in a drop from the course. If you decide to drop, it is your responsibility to drop the class officially through the Administration and Records office. In failing to do so, you run the risk of receiving a grade of **F**.

Classroom Behavior: Please take care of any personal responsibilities and needs before entering the classroom. Please **TURN OFF your phones** when entering the class. They should be off **for the duration** of the class period. While you are in class, I expect you to participate and pay attention. You may not work on the homework in class or prepare for a different class or listen to music. Please notify me in advance if you plan on bringing a guest to class.

Drop Deadline: Friday, March 11th

Final Exam Date, Time, and Location: Monday, May 16th, 6:00 pm – 7:50 pm, SOC 31

Exams: There will be exams on the dates listed in the course outline below. These dates will not change regardless of topic we have reached at the time. The week of the exam no homework will be due.

Homework: Homework will be due weekly at the beginning of class. Any homework turned in after the beginning of class will be considered late. The homework assignment will be posted in advance as a .pdf file on Blackboard. Please download and print.

Write your answers in the space provided and staple all the work to the homework sheets. All homework will be graded on completeness and neatness in addition to accuracy. Please write out each problem before solving it, make sure you show all work and box-in or underline each answer. **NO LATE HOMEWORK WILL BE ACCEPTED.** This holds true even if you are absent. If you know you will be absent on the due date, turn in your homework in advance if you wish to receive credit. I can make no exceptions because I will be posting solutions the day it is due.

Final Exam: The final exam will be held during finals week on **Monday, May 16th** in room SOC 31. It will be comprehensive and you are required to take the exam. If it is in your best interest I will replace your lowest test score with your final exam score.

Grading Policy: I will use the following grading scheme:

<u>Point Value:</u>	<u>Letter Grade Assignment:</u>
10 Homeworks: 200 points (20 each)	A: 900 – 1000 points
4 Exams: 600 points (150 each)	B: 800 – 899 points
<u>Final Exam: 200 points</u>	C: 700 – 799 points
Total Points: 1000 points	D: 600 – 699 points
	F: 0 – 599 points

Finding your Grade: I will be updating your grades regularly on Blackboard. You will be able to view your progress there.

SPECIAL NEEDS REQUESTS: If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

Please refer to the RC Catalog for the Policies on Academic Dishonesty, Cheating, and Plagiarism, pg. 46.

Course Objectives: While completing this course, students will:

1. Develop an understanding of the base ten number system.
2. Learn basic addition and multiplication facts of single digit integers.
3. Learn, extensively practice, and apply the operations of addition, subtraction, multiplication, and division of single and multiple digit whole numbers and decimals.
4. Learn, extensively practice, and apply the operations of addition, subtraction, multiplication, and division of rational numbers.
5. Use ratios to compare two quantities with the same units.
6. Use rates to compare two quantities with different units.

7. Set up the four elements of a proportion.
8. Determine whether a statement is a proportion.
9. Solve a proportion with an unknown element.
10. Convert numbers between decimal, fractional and percent forms.
11. Translate a percent problem into an equation and solve.
12. Translate a percent problem into a proportion and solve.

Course Outcomes: Upon completion of the course, students will be able to:

1. Apply the four arithmetic operations (addition, subtraction, multiplication, and division) to the set of integers.
2. Apply the four arithmetic operations to fractions and mixed numbers.
3. Apply the four arithmetic operations to decimal numbers.
4. Evaluate whole numbers raised to exponents using the definition of exponents.
5. Solve consumer arithmetic problems such as balancing a checkbook and calculating unit cost.
6. Solve consumer arithmetic problems using ratios and proportions such as proportionally increasing or decreasing a recipe and calculating fuel mileage.
7. Solve business applications such as computing simple interest.

Course Outline and Schedule

Week of Jan. 10 th :	<i>Begin Chapter 1: Whole Numbers</i>
Week of Jan. 17 th :	NO CLASS Monday Jan. 17 th (MLK Jr. Day) Homework 1 due on Wednesday, Jan. 19 th
Week of Jan. 24 th :	Homework 2 due on Wednesday, Jan. 26 th
Week of Jan. 31 st :	Exam 1 on Wednesday, Feb. 2nd
Week of Feb. 7 th :	<i>Begin Chapter 2: Integers</i> Homework 3 due on Wednesday, Feb. 9 th
Week of Feb. 14 th :	Homework 4 due on Wednesday, Feb. 16 th
Week of Feb. 21 st :	NO CLASS Monday Feb. 21 st (Washington Day) Homework 5 due on Wednesday, Feb. 23 rd
Week of Feb. 28 th :	EXAM 2 on Wednesday, Mar. 2nd
Week of Mar. 7 th :	<i>Begin Chapter 5: Fractions and Rational Expressions</i> Homework 6 due on Wednesday, Mar. 9 th Last day to drop a full-term class Friday, Mar. 11 th
Week of Mar. 14 th :	Homework 7 due on Wednesday, Mar. 16 th

- Week of Mar. 21st: **Homework 8** due on Wednesday, Mar. 23rd
- Week of Mar. 28th: **Homework 9** due on Wednesday, Mar. 30th
- Week of Apr. 4th: **EXAM 3** on Wednesday, Apr. 6th
- Week of Apr. 11th: *Begin Chapter 6: Decimals*
Homework 10 due Wednesday, Apr. 13th
- Week of Apr. 18th: **SPRING RECESS**, Apr. 18th – Apr. 22nd
- Week of Apr. 25th: Classes reconvene Monday, Apr. 25th
Homework 11 due on Wednesday, Apr. 27th
- Week of May 2nd: **EXAM 4** on Wednesday, May 3rd
- Week of May 9th: **Homework 12** due on Wednesday, May 11th
- Week of May 16th: **Finals Week**
Comprehensive FINAL EXAM on Monday May 16th
6:00 pm – 7:50 pm in room SOC 31

I will do my best to follow the schedule content-wise depending on how quickly we can cover the topics. However, the events in bold will take place on their specified dates.