

## College Arithmetic

**MATH 250-56325**

Mr. Steven Zook

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Reedley College

Spring 2010

**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:** John Tobey, Jeffrey Slater, and Jamie Blair, **Essentials of Basic College Mathematics**, Person Prentice Hall, 2<sup>nd</sup> 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 12<sup>th</sup>

**Final Exam Date, Time, and Location:** Monday, May 17<sup>th</sup>, 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 to use as your cover sheet, stapled to the work you turn in. 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 17<sup>th</sup>** 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>Weighting:</u>	<u>Letter Grade Assignment:</u>
Homework: 20%	A: 90% - 100%
Exams: 60% (20% each)	B: 80% - 89%
Final Exam: 20%	C: 70% - 79%
	D: 60% - 69%
	F: 0% - 59%

**Finding your Grade:** I will be updating you 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. form an understanding of the base ten number system.
2. practice with and master basic addition and multiplication facts of single digit whole numbers.
3. learn, extensively practice and apply the concepts of addition, subtraction, multiplication and division of single and multiple digit whole numbers and decimals.
4. learn, extensively practice and apply the concepts of addition, subtraction, multiplication and division of fractions.
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) on the set of whole numbers.
2. apply the four operations on fractions and mixed numbers.
3. apply the four operations on 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. 11 <sup>th</sup> :	Begin Chapter 1: Whole Numbers
Week of Jan. 18 <sup>th</sup> :	NO CLASS Monday Jan. 18 <sup>th</sup> (MLK Jr. Day) <b>Homework 1</b> due on Wednesday, Jan. 20 <sup>th</sup>
Week of Jan. 25 <sup>th</sup> :	<b>Homework 2</b> due on Wednesday, Jan. 27 <sup>th</sup>
Week of Feb. 1 <sup>st</sup> :	<b>Homework 3</b> due on Wednesday, Feb. 3 <sup>rd</sup>
Week of Feb. 8 <sup>th</sup> :	<b>EXAM 1 on Wednesday, Feb. 10<sup>th</sup></b>
Week of Feb. 15 <sup>th</sup> :	NO CLASS Monday Feb. 15 <sup>th</sup> (Washington's Day) Begin Chapter 2: Fractions
Week of Feb. 22 <sup>nd</sup> :	<b>Homework 4</b> due on Wednesday, Feb. 24 <sup>th</sup>
Week of Mar. 1 <sup>st</sup> :	<b>Homework 5</b> due on Wednesday, Mar. 3 <sup>rd</sup>
Week of Mar. 8 <sup>th</sup> :	<b>EXAM 2 on Wednesday, Mar. 10<sup>th</sup></b> Last day to drop a semester length course Friday, Mar. 12 <sup>th</sup>
Week of Mar. 15 <sup>th</sup> :	Begin Chapter 3: Decimals <b>Homework 6</b> due on Wednesday, Mar. 17 <sup>th</sup>

- Week of Mar. 22<sup>nd</sup>: **Homework 7** due on Wednesday, Mar. 24<sup>th</sup>
- Week of Mar. 29<sup>th</sup>: **SPRING RECESS**, Mar. 29<sup>th</sup> – Apr. 2<sup>nd</sup>
- Week of Apr. 5<sup>th</sup>: **Homework 8** due on Wednesday, Apr. 7<sup>th</sup>
- Week of Apr. 12<sup>th</sup>: Begin Chapter 4: Ratio and Proportion  
**Homework 9** due on Wednesday, Apr. 14<sup>th</sup>
- Week of Apr. 19<sup>th</sup>: **EXAM 3 on Wednesday, Apr. 21<sup>st</sup>**
- Week of Apr. 26<sup>th</sup>: **Homework 10** due on Wednesday, Apr. 28<sup>th</sup>  
Begin Chapter 5: Percent
- Week of May 3<sup>rd</sup>: **Homework 11** due on Wednesday, May 5<sup>th</sup>
- Week of May 10<sup>th</sup>: **Homework 12** due on Wednesday, May 12<sup>th</sup>
- Week of May 17<sup>th</sup>: **Finals Week**  
**Comprehensive FINAL EXAM on Monday May 17<sup>th</sup>**  
**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.