

REEDLEY COLLEGE: SPRING 2014

Course: Math 201 Elementary Algebra

Section: 52917

Units: 5

Hours: T Th: 2:00 pm - 4:15 pm (10 minute break 3:00 - 3:10 pm)

Room: CCI 206

Instructor: Hyangsug "Suely" Lee

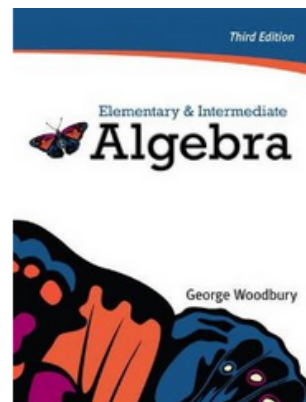
Instructor Email: suely.lee@reedleycollege.edu



REQUIRED TEXTBOOK

Elementary and Intermediate

Algebra, George Woodbury, 3rd ed



COURSE DESCRIPTION:

This is a first course in elementary algebra, including algebraic expressions, linear equations and inequalities in two variables, exponents and polynomials, factoring, and rational expressions.

Subject Prerequisites: Math 250_College Arithmetic (requires C grade or better), or equivalent

Advisories: Mathematics 256_Topics Before Algebra and eligibility for English 126_Reading Skills for College

COURSE OUTCOMES:

Upon completion of this course, students will be able to:

- apply real number operations to simplify and factor algebraic expressions.
- solve linear and quadratic equations.
- use graphic representation of an equation in two variables to solve appropriate problems.

COURSE OBJECTIVES:

In the process of completing this course, students will:

- recognize the real number system, its subsets and how to perform operations on numbers from these subsets.
- simplify algebraic expressions and solve linear equations and inequalities
- graph linear equations in two variables and solve systems of linear equations.
- simplify expressions using the properties of exponents and perform operations with polynomials.
- factor algebraic expressions and solve equations of degree greater than one
- perform arithmetic operations on rational expressions and solve equations containing rational expressions.

APPROPRIATE READINGS:

- I. Martin-Gay *Beginning & Intermediate Algebra*, ed. 4th Pearson – Prentice Hall, 2009
- II. McKeague *Elementary & Intermediate Algebra*, ed. 3rd Brooks/Cole, 2008

REQUIRED MATERIALS:

Two spiral grid-paper, notebooks, 3-Ring Binder, pencils, eraser, ruler, Scientific Calculator (No TI-89 or cell phones with similar features)

HOMEWORK/PROJECTS:

- I. Homework is assigned on a regular basis. All homework must be submitted on the due date at the beginning of the class.
(Work on homework problems together, but make sure the work you submit is that of your own!)
- II. Every work must be shown legibly and be done on a notebook.
- II. Late homework are counted as 50% of the points possible..
- III. If you are absent, check the assignment with your classmate or send an email to me.

ATTENDANCE:

Students are expected to attend all class meetings, be on time, and be in class the ***entire*** class session. Attendance will be checked at the end of each class. 2 absences in a roll without excuses need to be reported before class by email also prepared to take a quiz for the materials that was covered in class.. ***if you decide to drop the course, you must make the drop official at the Administrations and Records office.***

ACADEMIC HONESTY:**Cheating and Plagiarism are not acceptable.**

- Please make sure any work produced is of your own.
- Two identical tests will be considered as both students' cheating
- If you are having trouble in the course, come talk to me FOR HELP.

CLASSROOM ETIQUETTE:

- If arriving late or leaving early, please do so in a manner that avoids disrupting the class.
- All electronic devices are to remain off during lecture. In particular, cell phones are to remain on silent and put away with vibrate feature turned off during class. There will be no texting or answering of phone calls during class.
- If you miss class, it is your responsibility to find out what you've missed.
- All electronic devices are to remain off during lectures. In particular, cell phones are to remain on silent and put away with vibrate feature turned off during class. There will be no texting or answering of phone calls during class.
- As you find yourself working with classmates, be respectful of individual differences.
- Refrain from using vulgar language including, but not limited to racial, gay, or gender slurs.
- Personal needs (i.e., using the restrooms) must be taken care of before class begins.

EXAMS/QUIZZES :

- 7 Chapter Exams (A worst score out of the 7 exams will be dropped)
- 10 15-minute Quizzes on Thursdays (except Chapter Exam days) _ 10 problems from the previous homework assignments.

FINAL EXAM: Mon., May 19, 2014; 2:00-3:50 pm

GRADING:

A 90 - 100; **B** 80 - 89; **C** 70 - 79; **D** 60 - 69; **F** 0 - 59

Attendance : 10 %

Homework : 15 %

10 Quizzes : 15 %

6 Tests : 40% In-class

Final Exam: 20%

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.

Math 201 Elementary Algebra: Course Outline and Contents:

| Topic | Objectives |
|---|--|
| A. Number Systems and Operations (Chapter 1) | 1. The set of real numbers and its subsets 2. Addition, subtraction, multiplication and division of real numbers |
| B. Linear Equations and Inequalities (Chapter 2) | 1. Simplifying expressions 2. Solving equations using the addition and multiplication properties of equality 3. Applying the addition and multiplication properties to solve formulas 4. Applying the addition and multiplication properties to solve inequalities 5. Applications |
| C. Graphing and Linear Systems (Chapter 3 & 4) | 1. Graphing ordered pairs 2. Finding solutions to linear equations in two variables |

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|---|--|
| | <ul style="list-style-type: none"> 3. Finding axis intercepts and using them to graph the equation 4. Solving systems by graphing, addition, and substitution method. 5. Applications of systems |
| D. Exponents and polynomials (Chapter 5) | <ul style="list-style-type: none"> 1. Multiplication and division with exponents 2. Operations with monomials 3. Addition, subtraction, multiplication, and division of polynomials 4. Special products |
| E. Factoring (Chapter 6) | <ul style="list-style-type: none"> 1. Greatest common factorization 2. Factoring by grouping 3. Factoring trinomials 4. Special factoring 5. Solving equations by factoring 6 Applications |
| F. Rational Expressions (Chapter 7) | <ul style="list-style-type: none"> 1. Reducing rational expressions 2. Multiplication, division, addition, and subtraction of rational expression 3. Solving equations with rational expressions 4. Solving proportions 5. Applications 6. Simplifying complex fractions |

ACADEMIC CALENDAR SPRING 2014:

Important Dates:

| | |
|-------------|---|
| Jan 20 (M) | No Class, Martin Luther King Jr., Day observed |
| Jan 24 (F) | Last day to request an Enrollment Fee Refund |
| Jan 31 (F) | Last Day to add a full term class for Spring 2014 |
| Jan 31 (F) | Last day to drop to avoid a "W" (in Person) |
| Jan 31 (F) | Last day to drop to avoid a "W" (on WebAdvisor) |
| Feb 13 (Th) | Last day to change a class to/from a Pass/No-Pass grading basis |
| Feb 14 (F) | No class, Lincoln Day observed |
| Feb 17 (M) | No class, Washington Day observed |

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|------------------|---|
| Mar 14 (F) | Last day to drop a full term class (in person) (letter grade assigned after this) |
| Mar 20-31 (Th-M) | Summer /Fall 2014 Registration begins for continuing students (all locations by date) |
| Apr 14-17 (M-F) | Spring 2014 Recess (No classes) |
| Mar 19-23 (M-F) | Final Exam Week |