

# Elementary Algebra (52573) Math 201

Fall Semester, August 13<sup>th</sup> – December 11<sup>th</sup>

Jim Blied, Instructor

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## Class Times

T & Th, 2:30-4:45 PM, CCI-200

## Text

**Elementary & Intermediate Algebra**

George Woodbury, (3<sup>rd</sup> edition)

## Course Content

- A. Number Systems and Operations
  - 1. The set of real numbers and its subsets
  - 2. Addition, subtraction, multiplication and division of real numbers
- B. Linear Equations and Inequalities
  - 1. Simplifying expressions
  - 2. Solving equations using the addition and multiplication properties 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
  - 1. Graphing ordered pairs
  - 2. Finding solutions to linear equations in two variables
  - 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
  - 1. Multiplication and division with exponents
  - 2. Operations with monomials
  - 3. Addition, subtractions, multiplication, and division of polynomials
  - 4. Special products
- E. Factoring
  - 1. Greatest common factor
  - 2. Factoring by grouping
  - 3. Factoring trinomials
  - 4. Special factoring
  - 5. Solving equations by factoring
  - 6. Applications
- F. Rational Expressions
  - 1. Reducing rational expressions
  - 2. Multiplication, division, addition, and subtraction of rational expressions
  - 3. Solving equations with rational expressions
  - 4. Solving proportions
  - 5. Applications
  - 6. Simplifying complex fractions

## Course Outcomes

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

- A. apply the operations of adding, subtracting, multiplying, and dividing to integers and rational numbers.
- B. apply the concept of like terms, to simplify expressions, and the addition and multiplication properties of equality to solve linear equations and inequalities.
- C. generate solutions to equations with two variables, use these solutions to graph the equation and determine the intercepts of the equation both from the graph generated and the given equation; solve systems of equations through the use of graphs, the addition method and the method of substitution.
- D. apply the properties of exponents to the multiplication, division, addition and subtraction of both monomials and polynomials.
- E. find the greatest common factor of an algebraic expression as the first step to its factorization; factor binomials, trinomials, and expressions with four or more terms. Apply the techniques of factoring to solve equations of degree greater than one.
- F. reduce, add, subtract, multiply and divide expressions containing algebraic

## Course Objectives

In the process of completing this course, students will:

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

## Attendance

Attendance to all class meetings is expected. Class starts at 7:00 AM sharp. Arriving late or leaving early will be counted as an absence. A student may be dropped due to excessive absences (5 or more) prior to October 14<sup>th</sup>. Please turn off cell phones, pagers, all electronic devices during class.

## Important Dates

August 13	-	first day of instruction
August 31	-	last day to drop/avoid a "W"
September 14	-	last day to change a class to/from Pass/No-Pass
October 12	-	last day to drop/letter grades assigned after this date
November 22	-	Thanksgiving, no class
December 11	-	Final

## Grading Scale

A	90 - 100%
B	80 - 89%
C	65 - 79%
D	50 - 64%

## Grades

The semester grade will be determined by using 7 test scores

## Tests

There will be 7 chapter tests. Test dates are advertised (see p. 3). There will be no making up missed tests. If you miss the test the grade will be a 0.

## Quizzes

There will be many quizzes, at least one per week. The quiz grades collectively will be worth one test score, at the end of the semester the best 10 quiz grades will be used to replace the lowest test score, with the exception of the chapter 7 test. There will be no making up missed quizzes.

## Final

The chapter 7 test will be the final exam.

## Homework

Homework is assigned (see p. 4) at each class meeting, and due with each chapter test. It will not be accepted late. Completed homework has the potential to raise a test score a letter grade.

## Accommodations

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.

## Cheating and Plagiarism

For the college policy on cheating and plagiarism, refer to the Reedley College catalog. Academic dishonesty is a cause for discipline under Board Policy 5500 (c) and procedures for formal discipline are spelled out in AR 5520 and also in Student Conduct Standards and Grievance Procedures Handbook available in the Vice President of Student Services' office. Every instructor has the authority and responsibility for dealing with such instances of cheating or plagiarism as may occur in class. For current information, consult your dean or the Office of Instruction.

Math 201 Test Schedule  
(tentative)

August	14	16
	21	23
	28	30 <b>Ch 1 TEST</b>
September	4	6
	11	13 <b>Ch 2 TEST</b>
	18	20
	25	27
October	2 <b>Ch 3 TEST</b>	4
	8	11
	16 <b>Ch 4 TEST</b>	18
	23	25
	30 <b>Ch 5 TEST</b>	
November		1
	6	8
	13	15
	20 <b>Ch 6 TEST</b>	22 <b>- no class -</b>
	27	29
December	4	6
	11 <b>Ch 7 TEST</b>	

# Math 101 Assignments

- subject to change -

## Chapter 1

1.1	1-4, 5-63 (odd)
1.2	1-8, 9-93 (odd)
1.3	1-10, 11-73 (odd)
1.4	1-6, 7-87 (odd), 89-97 (eoo)
1.5	1-6, 7-79 (odd), 81-86
1.6	-8, 9-69 (eoo)
1.7	1-6, 7-85 (odd)
1.8	1-10, 11-87 (eoo)
Practice Test	p 62, 1-28
Ch Review	1-91 (eoo)

## Chapter 2

2.1	1-6, 7-91 (odd), 93-99 (eoo)
2.2	1-6, 7-91 (eoo)
2.3	1-8, 9-69 (choose any 10)
2.4	1-8, 9-19 (odd)
	23-55 (choose any 10), 57-79 (odd)
2.5	1-6, 7-75 (eoo)
Practice Test	pp116-117, 1-20
Ch Review	1-53 (eoo)

## Chapter 3

3.1	1-6, 7-73 (eoo)
3.2	1-6, 7-55 (eoo), 59
3.3	1-8, 9-97 (eoo)
3.4	1-10, 11-61 (eoo)
3.5	1-6, 7-53 (odd)
3.6	1 & 2, 3-67 (eoo)
3.7	1-4, 5-53 (eoo)
Practice Test	pp 196-197, 1-18
Ch Review	1-57 (eoo)

## Chapter 4

4.1	1-6, 7-41 (odd)
4.2	1-4, 5-53 (eoo)
4.3	1-4, 5-61 (eoo)
4.4	1-49 (eoo)
4.5	1-4, 5-29 (eoo)
Practice Test	pp 247-248, 1-15
Ch Review	1-43 (eoo)

## **Chapter 5**

5.1	1-6, 7-109 (odd)
5.2	1 & 2, 3-73 (eoo), 75-81 (odd)
5.3	1-8, 9-73 (odd)
5.4	1-4, 5-91 (odd)
5.5	1-4, 5-77 (eoo)
Practice Test	pp 293-294, 1-20
Ch Review	1-77 (eoo)

## **Chapter 6**

6.1	1-4, 5-63 (odd)
6.2	1-4, 5-75 (odd)
6.3	1 & 2, 3-65 (odd)
6.4	1-6, 7-87 (odd) 89-96
6.5	1-6, 7-116 (odd)
6.6	1-4, 5-75 (odd)
6.7	1 & 2, 3-37 (eoo)
6.8	1-4, 5-37 (eoo), 41, 45, 53, 55, 57
Practice Test	pp 352-353, 1-20
Ch Review	1-57 (eoo)

## **Chapter 7**

7.1	1-6, 7-69 (eoo)
7.2	1-4, 5-67 (eoo)
7.3	1-4, 5-69 (eoo)
7.4	1 & 2, 3-57 (eoo)
7.5	1 & 2, 3-3-51 (odd)
7.6	1-4, 5-67 (eoo)
7.7	1-6, 7-53 (eoo)
Practice Test	pp 415-416, 1-20
Ch Review	1-61 (eoo)

