

Math 101-56158

Mr. Jim Gilmore

Office: FEM

Office Hours: M, Th 11:00-11:50; W 9:00-9:50

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Beginning Algebra

REEDLEY COLLEGE

Spring 2010

EXT. 3365

Meeting Room: FEM 4

Meeting Days: Daily

Course Description: Operations with signed numbers, algebraic expressions, linear equations and their graphs, inequalities, exponents, radical expressions and equations, factoring, rational expressions and equations, quadratic equations and applications.

Basic Skills Advisories: Eligibility for ENGL 126

Subject Prerequisites: Math 250 or Equivalent

TEXT: (Optional) Charles P. McKeague, Elementary and Intermediate Algebra, Saunders College Publishing, 3rd Edition, 2008.

REQUIRED NOTES: Math 101 Notes are to be purchased from the bookstore.

Required Web Access: WebAssign can be purchased from the bookstore with text, or at www.webassign.net, or <http://cengage.com/ichapters/scccd>

ATTENDANCE: Students are expected to attend all class meetings, be on time, and be in class the entire class session. Calling me to tell me you will be absent **does not** excuse you. **STUDENTS LEAVING CLASS BEFORE THE END OF CLASS WILL BE COUNTED AS BEING ABSENT!** **Three (3) absences** may result in a drop from the course. However, if you decide to drop the course, it is **your** responsibility to make the drop official in the Administrations and Records office or else possibly receive a grade of **F**.

Behavioral Standards: Your classmates and I would greatly appreciate that students in the class take care of any personal needs (i.e., using the restroom, getting a drink, sharpening a pencil) before class begins. Please turn your phone off when entering the class. You may not use your phone as a calculator. I would appreciate that you not bring guests to class.

NOTE: The drop deadline is **March 12, 2010**.

TARDIES: Students are expected to be on time. It is distracting, rude and unfair to fellow classmates and to the instructor when a student is late. If you are not present when roll is taken you will be counted as absent.

HOMEWORK: Homework is done using WebAssign on the computer. **NO LATE HOMEWORK WILL BE ACCEPTED!**

Note: Being absent the day homework is collected does not entitle you to turn it in late!

TESTS: There are no makeup exams for missed tests.

FINAL EXAM: A two-hour comprehensive final exam worth 1 test will be given at the end of the semester during finals week. You are required to take the final exam, however the final exam will replace your lowest test score.

Students are required to participate in all class discussions and activities. You may not start the homework during class. You may not study for another class or read a book during class.

GRADING:

- *Homework:* All of your homework scores will be worth the same percentage. So homework worth 10 points and homework worth 15 points will count the same. Homework percentages will be averaged to obtain a total homework percentage.
- *Online Tests:* All of your test percentages will be averaged. This will give you a score between 0 and 100.
- *In Class Tests:* All of your test percentages will be averaged. This will give you a score between 0 and 100.
- Your homework grade is worth 25% of your grade. Your online test grade is worth 5% of your grade and the in class test grade is worth 70% of your grade

Example: If your homework grade is 75, your online test grade is 85, and your in class test grade is 70%, then you would compute your grade as follows:

$$(.25)(75) + (.05)(85) + (.70)(70) = 18.75 + 4.25 + 49 = 72\%$$

<u>Percent of Total Points</u>	<u>Grade</u>
89-100	A
78-88	B
65-77	C
55-64	D
0-54	F

WHERE TO FIND YOUR GRADE:

Available at <http://sc.webgrade.classmanager.com/ReedleyCollege/> Your class will be identified by schedule number. Username and password is sent to your email that you have on record with Blackboard.

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.

Academic Dishonesty

Students at Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors. Academic dishonesty in any form is a very serious offense and will incur serious consequences.

Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers, in an attempt to gain an unearned academic advantage. Cheating may include, but is not limited to, copying from another's work, supplying one's work to another, giving or receiving copies of examinations without an instructor's permission, using or displaying notes or devices inappropriate to the conditions of the examination, allowing someone other than the officially enrolled student to represent the student, or failing to disclose research results completely.

Plagiarism is a specific form of cheating: the use of another's words or ideas without identifying them as such or giving credit to the source. Plagiarism may include, but is not limited to, failing to provide

complete citations and references for all work that draws on the ideas, words, or work of others, failing to identify the contributors to work done in collaboration, submitting duplicate work to be evaluated in different courses without the knowledge and consent of the instructors involved, or failing to observe computer security systems and software copyrights.

Incidents of cheating and plagiarism may result in any of a variety of sanctions and penalties, which may range from a failing grade on a particular examination, paper, project, or assignment in question to a failing grade in the course, at the discretion of the instructor and depending on the severity and frequency of the incidents.

Course Objectives

In the process of completing this course, the student will:

- A) learn 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 containing rational expressions.

Course Outcomes

Upon completing this course students will demonstrate the ability to:

- A) add, subtract, multiply, and divide 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.
- B) 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.
- C) 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 rational expressions; apply concepts of solving equations to the solving of equations containing rational expressions.

COURSE CONTENT OUTLINE:

- A) Number Systems and Operations (**Chapter 1, 17 Hours**)
 - 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, 13 Hours**)
 - 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, 12 Hours**)
 - 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 (**Chapter 4, 11 Hours**)
 - 1) Multiplication and division with exponents
 - 2) Operations with monomials
 - 3) Addition, subtractions, multiplication, and division of polynomials
 - 4) Special products

- E) Factoring (**Chapter 5, 12 Hours**)
 - 1) Greatest common factor
 - 2) Factoring by grouping
 - 3) Factoring trinomials
 - 4) Special factoring
 - 5) Solving equations by factoring
 - 6) Applications

- F) Rational Expressions (**Chapter 6, 12 Hours**)
 - 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

Important Dates

January 11	Class Begins
January 18	Martin Luther King Jr. Day
February 12	Lincoln Day
February 15	Washington Day
March 12	Last day to drop
March 29-April 2	Spring Recess
May 17 (Monday)	Final day from 8:00-9:50 (The final is a test. Be sure you plan to be there!)
May 21	End of semester