

SYLLABUS

Class Hours:	Daily	10 a.m. – 10:50 a.m.	
Room No:	CCI	200	
Class No:	56701		
Instructor:	Sharon Wu		
Phone:	638-3641	ex-3497	
Office Hours:	M	11 a.m. – 11:50 a.m.	Math Center (FEM Building)
	Th	2 p.m. – 4 p.m.	FEM 1D
		or By appointment	
Office Location:	FEM	1D	
E-mail:	sharon.wu@reedleycollege.edu		

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 containing rational expressions.

Learning 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 rational expressions; apply concepts of solving equations to the solving of equations containing rational expressions.

Course Prerequisite/Advisories:

Prerequisite: College Arithmetic (MATH 250) or equivalent or MATH 257.

Basic Skill Advisories: Eligibility for English 126.

Subject Advisories: MATH 256 (Topics before Algebra)

Textbook:

Optional: George Woodbury, Elementary & Intermediate Algebra, 2nd Edition; By Addison Wesley.

Required: MyMathlab access code

Blackboard:

Blackboard is used for announcement and general class related information

To log-in Reedley College Blackboard:

User name: your student ID

Password: (* Be sure to change your password after you login)

Course Compass / MyMathLab:

Homework assignments are online using MyMathLab. First, you need to register at CourseCompass (sign up) for this class. Go to following webpage, and click on “register”.

<http://www.coursecompass.com/>

The course ID is wu73897

You will be **dropped** from this class, if you have not registered on MyMathLab by Wednesday 11 p.m.

Course Outline:

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

- **Review of Real Numbers:** Symbols and sets of numbers; fractions; variable expressions and equations; addition/subtraction/multiplication/division of real numbers; properties of real numbers.
- **Equations, Inequalities, and Problem Solving:** simplifying expressions; addition/multiplication properties of equality; solving linear equations; formulas; and linear inequalities.
- **Graphing:** Reading graphs and rectangular coordinate system; graphing linear equations; intercepts; slope and rate of change; the slope-intercept form; the point-slope form; and functions.
- **Systems of Linear Equations:** Solve systems of equations by graphing, by substitution, and by addition; systems of equations and problem solving.
- **Exponents and Polynomials:** Exponents; polynomial functions; addition and subtraction of polynomials; multiply polynomials; special products; negative exponents and scientific notation; division of polynomial; Synthetic division and the remainder theorem.
- **Factoring Polynomials:** Greatest Common Factor; factoring by grouping; factoring trinomials; factoring binomials; solving quadratic equations by factoring; and problem solving.
- **Rational Expressions:** rational functions and simplify rational expressions; multiplication/division of rational expressions; addition/subtraction of rational expressions; equations involve rational expressions; complex fractions; problem solving and proportions.

Online Homework Assignments:

There is homework assignment for each section. You need to score 70% and above to move on to the next section. There is 30% deduction if homework is complete after the due date.

Online Chapter Quizzes:

There is an online quiz for each chapter. You have to complete the online chapter quiz with 60% and higher before you can start homework for next chapter.

Chapter Tests:

There is an in-class, written test at the end of each chapter.

Grading:

20% of your final grade points are from the average score of online homework points.

10% of your final grade points are from the average score of online chapter quiz.

70% of your final grade points are from the average score of chapter tests and final exam.

Class letter grade is assigned using following scale:

90-100	%	A
80- 89	%	B
70- 79	%	C
60- 69	%	D
< 60	%	F

Important Dates:

Class begin	Monday	08/16/2010
Last day to register	Friday	09/03/2010
Last day to change to/from a Pass/No-Pass grading basis	Friday	09/17/2010
Last date to drop this class	Friday	10/15/2010
No classes (Campus closed)		
Labor Day	Monday	09/06/2010
Veterans Day	Thursday	11/11/2010
Thanksgiving Holidays	Thursday – Friday	11/25/2010 – 11/26/2010
Finals	Monday	12/13/2010 2:00 pm – 3:50 pm

Attendance:

Attendance will be taken at beginning of each class. Students are expected to attend all class meetings, be on time, and be in class the entire class session. Students, who leave the class before the end of class, will be counted as tardy. Two tardiness count as one absence. Your classmates and I would greatly appreciate that you take care of your personal needs (i.e., using the restroom, getting a drink...etc.) before the class begins.

Students will be dropped from the class if they fail to attend the first class session of the semester.

During the semester up to final drop date, any student who missed more than two weeks of class meetings will be dropped from this class (**10** classes).

Canceled Class Notification:

Click on “Canceled Class Meetings” on Reedley College webpage (www.reedleycollege.edu) for class cancellations.

Student Conduct:

Students are expected to conduct themselves in a responsible manner in the classroom. Specific rules and regulations have been established in Board Policy 5410. Failure to adhere to the accepted standards will result in disciplinary action. Campus Policies on Student Conduct is described in Reedley College Class Schedule.

Accommodations for students with disabilities:

If you have a verified need from 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.

Plagiarism and Cheating Policy:

Cheating and plagiarism is prohibited in the class. Incidents of cheating and plagiarism will result a failing grade on the particular examination or assignment in question.