Elementary Algebra

Math 201 (59897)

**Course Syllabus**

|  |  |
| --- | --- |
| **Semester/Year: Fall 2014****Units: 5****MyMathLab Course ID:** **hebert37628** | **Instructor**: Connie Hébert **Cell phone number: (559)977-6951****Email**: connie.hebert@reedleycollege.edu  |
| **Length:** 15 weeks  First day – 9/2 Last day – 12/12 Drop Deadline w/out W: 9/19Add Deadline: 9/19Drop Deadline: 10/21  | **Schedule**All classes meet Monday - FridayTime: 2:00 – 3:20pm**Room**: FEM – 4 **No Class:** 11/11, 11/27, 11/28 |

**Course Description**

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 expressions.

**Prerequisites:** Mathematics 250 or equivalent

**Student Learning Outcomes**

1. Apply real number operations to simplify and factor algebraic expressions.
2. Solve linear and quadratic equations.
3. Use graphic representation of an equation in two variables to solve appropriate problems.

**Course Objectives**

1. Recognize the real number system, its subsets and how to perform operations on numbers from these subsets.
2. Simplify algebraic expressions and solve linear equations and inequalities
3. Graph linear equations in two variables and solve systems of linear equations.
4. Simplify expressions using the properties of exponents and perform operations with polynomials.
5. Factor algebraic expressions and solve equations of degree greater than one.
6. Perform arithmetic operations on rational expressions and solve equations containing rational expressions.

**Textbook (Optional)**: Elementary and Intermediate Algebra (Third Edition) by Woodbury

**Web Access (Required):** MyMathLab access code must be purchased.

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

The course id is **hebert37628**

**Computer Requirements**

* **Internet Access (not dial up) and**

|  |  |  |
| --- | --- | --- |
| Microsoft Windows | Windows 8 & 7 | Firefox Chrome Internet Explorer 10 & 9 |
| Mac OS | 10.8 (Mountain Lion) | ChromeSafariFirefox |
|  | 10.7 (Lion) | Chrome Firefox  |
|  | 10.6 (Snow Leopard) | Safari 5 |

**Other Course Materials**

* Whiteboard, sheet protector, or any whiteboard like writing surface
* Whiteboard marker
* Calculator – not required, but is allowed on homework and tests

**Outline of Topics Covered**

1. Number Systems and Operations
	1. The set of real numbers and its subsets
	2. Addition, subtraction, multiplication and division of real numbers
2. Linear Equations and Inequalities
	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
3. 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
4. Exponents and Polynomials
	1. Multiplication and division with exponents
	2. Operations with monomials
	3. Addition, subtractions, multiplication, and division of polynomials
	4. Special products
5. Factoring
	1. Greatest common factor
	2. Factoring by grouping
	3. Factoring trinomials
	4. Special factoring
	5. Solving equations by factoring
	6. Applications
6. 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

**Instructional Methodology/Mode of Delivery**

We will work hard together to help you be the best mathematician possible.  We will have lectures, activities, and projects in class.   Homework will be assigned almost every day.

**Assignments & Tests**

Homework will be completed on MyMathLab and turned in there as well.  This is a mastery course so you will have as many attempts on a problem as you so choose.  It is best to have at least 80% accuracy.  Your homework percentage will be a part of your grade.  Assignments and their due dates will be posted on MyMathLab.  *Note: Being absent the day homework is due does not entitle you to turn it in late!*You will also receive a grade for in class activities. There will be 7 tests, and they will be completed in class.  A student caught cheating will receive an F on the assignment/test and/or may be dropped from the course.

**The final will be comprehensive.**

**Chapter 1 & 2 Test**

**Chapter 3 Test**

**Chapter 4 Test**

**Chapter 5 Test**

**Chapter 6 Test**

**Chapter 7 Test**

**Final Exam**

**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.

**Attendance**

After 5 absences, students may be dropped from the class. Late arrival and leaving class early will be considered as an absence. Any canceled classes will have a note posted on the classroom door. I'll do my best to email you as well.

 **Behavior**

A student may be suspended from the class if he or she engages in a classroom behavior that interferes with the learning environment. Such behavior includes, but is not limited to, disruptive conversations with fellow students, regular tardiness, sleeping, and leaving the classroom during class time. Students are expected to turn off all pagers, cell phones, and other electronic devices during class time.

**Makeup Work/Late Assignments**

In general no late assignments will be accepted.  Unless drastic circumstances occur those deadlines are firm. Contact me as soon as possible for any hoped for exceptions.

**Assignment Point Values / Grading Policies**

*Point totals will be collected together and your grade will be based on the grades below.* You can keep track of your grade on MyMathLab.  If you believe any grade to be in error, please discuss it with me.  If you are not satisfied with our discussion, you make take your concern to the dean of this school.  Contact me, your program director or your advisor if you feel like you need help with this course.

***Assignment Points***

**Tests**​ **100**

**Final Exam 200**

**Quizzes 30**

**Homework 10**

**Class Activities 5 - 15**

***Letter Grade Percent***

A 90% or above

B 80% - 89%

C 70% - 79%

D 60% - 69%

F below 60%

**Special Needs:** 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.