

Clarendon College

Clarendon, Texas

Spring 2012

Math 1314

College Algebra

Instructor: Linda Rowland
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Classroom Location: Clarendon College Room #101

Time: Math 1314 MWF 11:00
Wheeler HS
Pampa HS
Ft. Elliott HS

Office Hours: MW 9:00-10:00, 6:20 – 7:20
M 12:30-3:00
T 12:30 – 1:00
W 12:30 – 1:00
TH 12:30-1:00
F 9:00 – 11:00

Course Description:

Relations, functions, equations and inequalities, exponents and radicals mathematical induction, progressions, binomial theorem and probability.

Lecture Hours: 3

Laboratory Hours: 0

Semester Hours: 3

Prerequisites: Appropriate THEA (Accuplacer) score or consent of instructor.

Statement of Purpose:

This course is intended to prepare students for further studies in mathematics and science, to meet the math requirement for an associate degree, and be a transferable credit to another institution.

Required Instructional Materials:

Textbook: Lial, Hornsby, and McGinnis. Algebra for College Students, 6th edition. McGraw-Hill, 2008.

Supplies: Textbook, paper, graph paper, pencil, **graphing scientific calculator**, and **Math XL**

Methods of Instruction:

1. Answer questions and review previous assigned work.
2. Explanation of the concept and skills under consideration
3. Provide examples on the board with step by step explanation of the operations and principles being applied.

4. Comment when appropriate on the history, importance, and application of specific concepts.
5. Overheads and power point when appropriate.

Course Objectives:

At the end of the course the student should be able to:

1. Perform operations on and factor polynomials.
2. Graph, solve, and apply linear equations.
3. Solve and graph linear inequalities.
4. Give the properties of a line.
5. Solve systems of linear equalities and inequalities.
6. Solve, graph, and apply quadratics.
7. Perform operations on and solve rational expressions.
8. Calculate and define ratios and proportions.
9. Define and graph functions.
10. Perform operations on radical expressions and complex numbers.
11. Solve polynomials by means of long division and synthetic division

Exemplary Objectives:

1. To apply arithmetic, algebraic, geometric, higher-order thinking, and statistical methods to modeling and solving real-world situations.
2. To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically.
3. To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.
4. To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and determine the reasonableness of the results.
5. To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.
6. To recognize the limitations of mathematical and statistical models.
7. To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines.

Grading Policies:

Grading:

Attendance: 10% After the second unexcused, this grade goes to a zero which can drop you one whole grade level.

Research Paper: 10% Research Paper due March 18th. Turn in through the website www.turnitin.com

Quizzes: 15% Quizzes are located on Math XL.

Daily work (homework) 10% Homework is on math XL.

Tests: 20% chapter tests are on Math XL.

Final Exam: 35% No Final exam will be given early or late without the Dean of Instructions approval. All finals are paper and pencil and will be taken in the classroom.

IMPORTANT: NO GRADE WILL BE ACCEPTED UNTIL AFTER THE CLASS CONTRACT HAS BEEN SIGNED. ANY GRADE TAKEN BEFORE THE CLASS CONTRACT IS SIGNED WILL BE RECORDED AS A ZERO.

A simple average of the above will be used to determine the letter grade for the course based on the following:

90 – 100%	A
80 – 89.9%	B
70 – 79.9%	C
60 – 69.9%	D
59.9% or below	F

A student's final grade will be made available through the Student Portal at www.clarendoncollege.edu.

Student Academic Integrity:

Failure to comply with lawful direction of a classroom instructor is a disruption for all students enrolled in the class. Cheating violations include, but are not limited to: (1) obtaining an examination, classroom activity, or laboratory exercise by stealing or collusion; (2) discovering the content of an examination, classroom activity, laboratory exercise, or homework assignment before it is given; (3) using an unauthorized source of information during an examination, classroom activity, laboratory exercise, or homework assignment; (4) entering an office or building to obtain unfair advantage; (5) taking an examination for another person; (6) completing a classroom activity, laboratory exercise, homework assignment, or research paper for another person; (7) altering grade records; (8) using any unauthorized form of electronic communication device during an examination, classroom activity, or laboratory exercise; (9) Plagiarism. Plagiarism is the using, stating, offering, or reporting as one's own, an idea, expression, or production of another person without proper credit.

Disciplinary actions for cheating in a course are at the discretion of the individual instructor. The instructor of that course will file a report with the Dean of Students when a student is caught cheating in the course, whether it be a workforce or academic course. The report shall include the course, instructor, student's name, and the type of cheating involved. Students who are reported as cheating to the Dean of Students more than once shall be disciplined by the Dean. The Dean will notify all involved parties within fourteen days of any action taken.

Classroom Conduct:

I will show you the respect you deserve as a student. I, in return, expect respectful behavior from you.

Disrespectful behavior includes...

- **Arriving late.**
- **Leaving the room during class time.** Plan restroom visits before or after class—not during class. If special needs exist, please make prior arrangements.
- **Using electronic communication devices.** This includes cell phones, pagers, etc. These are not allowed during class time. If special needs exist, please make prior arrangements.
- **Sleeping in class.**
- **Talking in class.** Class time is not the time to visit with your fellow classmates. If you do, I will ask you to leave the classroom.
- **Using headphones.** If you do, I will ask you to leave the classroom.
- **Use of profane or inappropriate gestures and/or language.**
- **Use of any tobacco product and spitting sunflower seeds**

- **Improper dress such as showing too much skin or vulgar T-shirt.**

Class Policies:

1. **Final Exams:** Students must take a final exam for each of their academic courses. The schedule of final exams times is published at the beginning of the semester. Do not make plans to leave school before your scheduled final exam. I will not give any early finals except in extreme emergencies after students have provided documentation of said emergency.
2. **Scholastic Honesty:** I adhere to a strict policy regarding academic honesty. Anyone who is dishonest in any way will receive a zero on that assignment or exam with no opportunity to make up the zero and may be dropped from the course with a grade of F. That student, if allowed to remain in the course, will not be allowed to receive any extra credit points from the time of the infraction through the remainder of the course. Furthermore, that student will not be allowed to drop their lowest quiz grade or exam grade. A second act of dishonesty will result in an F for the course. Students who commit an act of academic dishonesty will not be allowed to withdraw from the course with a "W." Note that dishonest behavior includes both the act of copying someone else's work as well as allowing someone to copy your work. Both students are equally guilty and will be equally punished.
3. **Electronic Communication/Entertainment Devices:** The use of cell phones, iPods, or other electronic communication or entertainment devices is prohibited. A first offense will result in confiscation of the device for one day. A second offense will result in loss of the device for one week. A third offense will result in loss of the device for the remainder of the semester.
4. **Withdrawal:** If you decide that you are unable to complete this course or that it will be impossible to complete the course with a passing grade, you may drop the course and receive a "W" on your transcript instead. Withdrawal from a course is a formal procedure that you must initiate. If you do not go through the formal withdrawal procedure, you will receive a grade of "F" on your transcript. A student is permitted to drop a course if he/she obtains an official drop slip from the office and has the instructor sign the slip before the 12th class week. **Remember, a student is only allowed to drop the same class twice before he/she will be charged triple the tuition amount for taking the class a third time or more. Furthermore, beginning with the Fall 2007 semester, students in Texas may only drop a total of 6 courses throughout their entire undergraduate career. After the 6th drop, he/she will no longer be able to withdraw from any classes.**
5. **Absences:** Please take class attendance seriously. You are here to learn all you can learn, to build a body of knowledge to help you in your career and/or to give you satisfaction in the future. Students who are motivated come to class. *You are responsible for the material covered in class (lecture or lab) even if you are absent.*

Unexcused Absences: 1 unexcused- grade is 95

2 unexcused – grade is 90

3 or more – grade is 0

Excused absences: Make-ups for tests will be allowed *only* if absences are excused. Excused absences can result from...

- illness on the part of the student
- severe illness or death in your *immediate* (not extended) family
- college sanctioned extracurricular events
- unfavorable weather conditions that prevent students from reaching the college

You should telephone or e-mail me *in advance* of an absence (leave a message if necessary). Even in emergencies, it usually is possible for you to get word to me about an absence. When you return, **you must furnish proof of the reason for your absence if you wish for it to be excused within three days of absences. Absences are excused only with a doctor's note, an e-mail from your coach or Dean of Students. You should check your absences regularly.** If you disagree with an absence then you must contact instructor within a week of that absence to get a change made. If you do not

take care of this within the given time interval than the absence will remain on the book as is. If you come in late, it is your responsibility to make sure instructor makes changes on the attendance roster. If 15 minutes late than you are considered absent.

6. **Make-up work:** Late or unexcused work will not be accepted. Students who have excused absences MUST let me know *before* the test is given that we need to schedule a make-up. In most cases, the tests must be taken PRIOR to the absence in order to receive full credit. **If you take the test after it has been given to the class, you will receive a 5 point penalty per school day that passes until you take the make-up.** To avoid the penalty, MAKE SURE YOU TAKE A MAKE-UP TEST BEFORE YOU LEAVE.

American with Disabilities Act Statement: Clarendon College provides reasonable accommodations for persons with temporary or permanent disabilities. Should you require special accommodations, it is your responsibility to notify the Office of Student Services (806-874-3571 or 800-687-9737). We will then work with you to make whatever accommodations we need to make.

Important dates: Spring Break	March 12 th – 16 th
Easter Break	April 6 – 9th
Last Day to drop with a W	Thursday, April 13th
Final Exams	May 7 th – 10 th

Course Schedule/Outline: Exact homework and test dates are posted on your “MathXL”. No late assignments will be accepted. **Student must sign class contract before any grades will be accepted.**

Chapter 4:	4.1 Systems of linear equations in two variables: equations in three variables: 4.3 Applications of Systems of Linear equations:	4.2 Systems of linear 4.4 Matrices
Chapter 5 polynomials:	5.1 Integer Exponents and Scientific Notations: 5.3 Polynomial Functions: 5.5 Dividing polynomials:	5.2 Adding and subtracting 5.4 Multiplying Polynomials
Chapter 6: factoring:	6.1 Greatest common factor; factoring by grouping 6.3 Special Factoring: 6.5 Solving polynomial equations by factoring:	6.2 Factoring Trinomials: 6.4 General methods of
Chapter 7 subtracting Rational Expressions Expressions and Graphs:	7.1 Multiplying and Dividing Rational expressions and functions: 7.3 Complex Fractions: 7.5 Applications of Rational Expressions:	7.2 Adding and 7.4 Equations with Rational
Chapter 8:	8.1 Radical expressions and graphs	8.2 Rational exponents:

	8.3 Simplifying radical expressions subtracting Radical Expressions:	8.4 Adding and
	8.5 Multiplying and dividing radical expressions: with Radicals:	8.6 Solving equations
	8.7 complex numbers:	
Chapter 9:	9.1 Completing the square 9.3 Equations in Quadratic form 9.5 Quadratic and Rational Inequalities	9.2 Quadratic Formula 9.4 Formulas
Chapter 11:	11.1 Inverse Function 11.3 Logarithmic Functions	11.2 Exponential Functions 11.4 Properties of
Logarithms	11.5 Logarithms	11.6 Exponential Equations

Finals - Schedule will be posted by Administration. All finals must be taken on the day and at the time posted unless you have a permission slip from the Dean of Instruction to take it early.

The final exam is a paper/pencil test and must be completed in the classroom on the day and time that the Dean of Instruction has set. Final Exam schedules are posted in the classroom, on my office door and on the internet.

Course outline is subject to change at the discretion of the instructor.