

Clarendon College

Clarendon, Texas
Spring 2012
Math 0303
Developmental Math III

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

Time: T R 9:30 to 10:50 am

Office Hours: MW 9:00-10:00, 6:20 – 7:20

M 12:30-3:00

T 12:30 – 1:00

W 12:30 – 3:00

TH 12:30-1:00

F 9:00 – 11:00

Course Description: Pre-College algebra for students who have not passed the THEA, but who have passed the previous level(s) of developmental studies required and need addition reinforcement of skills necessary for entry into Math 1314 or to pass the THEA.

Lecture Hours: 3

Laboratory Hours: 0

Semester Hours: 3

Prerequisites: consent of instructor

Statement of Purpose:

This course is intended to provide the student with the basic skills and concepts needed to be successful in his/her study of College Algebra and further studies in Mathematics and Science.

Required Instructional Materials:

Textbook: Lial, Hornsby, McGinnis. Developmental Mathematics: Basic Mathematics and Algebra. Published by Prentice Hall

Supplies: Textbook, paper, pencil, graphing scientific calculator, and MathXL

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 operation with Real Numbers and Rational Expressions.
2. Graph, solve, and apply linear equations.
3. Solve and graph linear inequalities.

4. Problem Solve and use formulas.
5. Solve systems of linear equalities and inequalities.
6. Solve, graph, and apply quadratics.
7. Factor Polynomials.
8. Solve equations and inequalities involving absolute values.
9. Define, evaluate and graph functions.
10. Write linear equations given a point and slope.
11. Write linear equations given two points.
12. Find the determinant of a matrix.

Exemplary Objectives:

1. To apply arithmetic, algebraic, higher-order thinking 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 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: *You must go to the lab and do the assignments if you intend on passing this class.*

Assignments and quizzes on MathXL will not be re-open after the due date. If you are going to miss class for extra-curricular activities then make arrangements ahead of time to complete the assignments. IMPORTANT: NO GRADES WILL BE ACCEPTED UNTIL YOU HAVE SIGNED THE CLASS CONTRACT----Any grades collected before the class contract is signed will be recorded as a zero.

Daily work: 15%
 Quizzes: 15%
 Classroom attendance : 10%
 Lab attendance: 10%

Attendance grade: 1 unexcused =95
 2 unexcused = 90
 3 or more unexcused = 0

Check attendance weekly. If you have a dispute with the marking of your attendance – you must meet with me within a week of the posting. After that week there will **not** be a change.

Mad Minute: 10%
 Tests: 40% Final counts as two test grades

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
60 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 will receive an F for the class.

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.**
- **Clothing that shows too much skin or t-shirts with un-appropriate language/pictures**
- **Use of any tobacco or spitting sunflower seeds**

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 F for the course. 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 up to 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.
If you think you need to drop this course, please talk with me about it first. It is possible that there is something you can do to still pass the course. Don't hurt your chances for a passing grade in the course by not attending labs or taking exams before we have discussed your situation. The last day to withdraw from this course with a "W" is posted on the bulletin board each semester.
5. **Absences:** Please take class attendance seriously for class is mandatory. 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.***
Excused absences: Make-ups for tests will be allowed *only* if absences are excused. Excused absences can result from...
 1. illness on the part of the student : must have a note from the doctor or your coach
 2. severe illness or death in your *immediate* (not extended) family: note from Dean of Instruction
 3. college sanctioned extracurricular events: your name must be on the list provided by the coach

4. unfavorable weather conditions that prevent students from reaching the college: Dean of instruction will notify teachers

Contact me ahead of time for absences. 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. Proof consists of a doctor's note, an e-mail from the Dean of Students or an e-mail from your coach.

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 10% 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

Tentative Course Schedule/Outline: Your assignments are posted on Math XL. No grades will be accepted until the class contract has been signed and returned to the instructor.

Chapter 9 Real Numbers

- 9.1 Exponents and the order of Operations
- 9.2 Expressions and Equations
- 9.3 Real Numbers and the number line
- 9.4 Add Real Numbers
- 9.5 Subtract Real Numbers
- 9.6 Multiply and Divide Real Numbers
- 9.7 Properties of Real Numbers
- 9.8 Simplify Expressions

Chapter 10 Linear Equations

- 10.1 Addition Property of Equality
- 10.2 Multiplication Property of Equality
- 10.3 Solve Linear Equations
- 10.4 Applications of Linear Equations
- 10.5 Geometry with Linear Equations
- 10.6 Linear Inequality

Chapter 11 Writing the equation of a line

- 11.1 Reading linear graphs
- 11.2 Graphing Linear Equations
- 11.3 Slope of a line
- 11.4 Equations of a line
- 11.5 Graph Linear Inequalities

Chapter 12 Exponents and Polynomials

- 12.1 Adding and subtracting Polynomials:
- 12.2 Product Rule and Power Rules for Exponents:
- 12.3 Multiplying Polynomials:
- 12.4 Special Products:
- 12.5 Integer Exponents and the Quotient Rule
- 12.6 Dividing a Polynomial by a Monomial
- 12.7 Dividing a Polynomial by a Polynomial:
- 12.8 An Application of Exponents:

Chapter 13 Factoring and Applications

- 13.1 Factors; The Greatest Common Factor:
- 13.2 Factoring Trinomials:
- 13.3 Factoring Trinomials by Grouping:

- 13.4 Factoring Trinomials using FOIL:
- 13.5 Special Factoring Techniques
- 13.6 Solving Quadratic Equations by Factoring:
- 13.7 Applications of Quadratic Equations

Chapter 14: Rational Expressions and Applications

- 14.1 The Fundamental Property of Rational Expressions:
- 14.2 Multiplying and Dividing Rational Expressions:
- 14.3 Least Common Denominators:
- 14.4 Adding and Subtracting Rational Expressions:
- 14.5 Complex Fractions:
- 14.6 Solving Equations with Rational Expressions:
- 14.7 Applications of Rational Expressions:
- 14.8 Variation:

Chapter 15: Systems of Linear Equations and Inequalities

- 15.1 Solving Systems of Linear Equations by Graphing:
- 15.2 Solving Systems of Linear Equations by Substitution:
- 15.3 Solving Systems of Linear Equations by Elimination:
- 15.4 applications of Linear Systems:
- 15.5 Solving systems of Linear Inequalities:

Chapter 16: Roots and Radicals

- 16.1 Evaluating Roots:
- 16.2 Multiplying, Dividing, and simplifying Radicals
- 16.3 Adding and Subtracting Radicals:
- 16.4 Rationalizing the Denominator
- 16.5 More Simplifying and Operations with Radicals:
- 16.6 Solving Equations with Radicals:

Chapter 17: Quadratic Equations

- 17.1 Solving Quadratic Equations by the Square Root Property:
- 17.2 Solving Quadratic Equations by completing the square:
- 17.3 Solving Quadratics Equations by the Quadratic Formula:
- 17.4 Graphing Quadratic Equations and Inequalities:
- 17.5 Introduction to Functions:

Tests: Chapter test are on MathXL. The Final exam is a paper/pencil test taken in the classroom on the day and time set by the Dean of Instruction. The Final Exam schedule is posted on my office door, in the classroom and on the internet.

This schedule/syllabus could be changed at the discretion of the instructor.