



Ranger College Developmental Math 0313: Beginning Algebra

Instructor: Dr. Norm Fletcher

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Office Hours:

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Prerequisites: Student has credit for Algebra I and Geometry and has met the passing standard on the Algebra I end of course exam.

Course Description as defined by Ranger College: The Real numbers and their properties and operations. Introduction to functions and notation. Solving and graphing linear equations and inequalities, and applications. Systems of linear equations and inequalities. Exponents and polynomials. Factoring techniques including special structures.

Course Credit: 3 semester hours—3 lecture hours per week, 3 lab hours per week (Not counted toward graduation.)

Student Learning Outcomes and Learning Objectives as defined by Ranger College:

At the end of the semester the student will be able to demonstrate on an examination the abilities to work with:

1. **Real Numbers:** Identify, operate and perform standard operations with real numbers
2. **Linear Equations, Inequalities, and Systems:** Apply appropriate theorems to solve linear equations, inequalities, and systems, and graph linear relations using two or more techniques.
3. **Quadratic Expressions and Equations:** Identify and factor special structures and solve quadratic equations through factoring.
4. **Algebraic Expressions and Equations:** Effectively perform standard operation on polynomials and algebraic fractions and manipulate express with integer exponents.
5. **Word Problems and Applications:** Effectively model verbal information with algebraic equations and inequalities and interpret the solution.

Instructional Methods: Discussions, web based instruction, videos, & chats.

Student Absence Policy: Students with the equivalent of 1 week of unexcused absences per developmental course, will be reported to the Retention Specialist for counseling. Students, who miss the equivalent of 2 weeks of unexcused absences per developmental course, will be dropped from the class by the instructor. Should this be the only developmental course that

the student is taking, the student will also be required to drop from school! Unexcused absences are counted from the first day of class as listed in the College Calendar, regardless of the date of the student's registration.

EAR System: This class uses the Early Alert Report (EAR) service. By week 2 of the summer semester, I will notify the Retention Coordinator if you have struggled with excessive absences, incomplete work, or difficulty with the course content. This warning is not an official grade, yet it indicates concerns about your progress that need to be addressed immediately. If you are contacted about an Early Alert Report, please respond to the Retention Coordinator and respective campus personnel (i.e., athletic coach, Dean of Students, instructor, campus administrator) to discuss action strategies and resources for academic improvement, and, ultimately, success.

ADA Statement: Ranger College provides a variety of services for students with learning and/or physical disabilities. The student is responsible for making the initial contact with the Ranger College counselor. It is advisable to make this contact **before** or **immediately after** the semester begins.

Non-Discrimination Statement: Admission, employment, and program policies of Ranger College are non-discriminatory with regard to race, creed, color, sex, age, disability, and national origin.

Classroom Procedures:

- **Class Participation:** Participation is strongly recommended and might be a consideration in determining the grade in the class.
- NO CALCULATORS
- You can only turn in assignments completed in PENCIL.
- **Academic Dishonesty:** A student found to be cheating or copying on an exam or quiz, will be given a grade of "0" on the paper-----repeated acts of cheating may result in being dropped from class with a grade of F.
- **Student Behavior Policy:** Students will behave as mature adults should and exhibit proper classroom decorum. Students will not cause any distractions that might prevent other students from learning. Students that deviate from this policy will not be permitted to remain in class.
- **Available Support Services:** The Learning Resource Center has books, videos, and computer software that may be used as a supplement for this class. Tutors are also available. (See the Counselor)
- **Passing the math portion of the Texas Success Initiative:** Students who pass the math test for the TSI during the semester will have the option of dropping the class with a grade of W or negotiating with the instructor for a grade in the class. The class may not be dropped if the student has not completed all portions of the TSI and the student is not enrolled in another developmental class.

Required Materials: MML (MyMathLab) Access Code; can be purchased online (mymathlab.com) or in book store.

*****Disclaimer:** *Students will NOT be allowed to use calculator on any tests including the Final and TSI Assessment.*

Text: This can be accessed (electronic copy) through the MyMathLab access code, or can be purchased through the bookstore (hard copy).

Introductory and Intermediate Algebra, Lial, Hornsby, McGinnis, 5e, Pearson Addison Wesley. ISBN 13:978-0-321-86553-3; ISBN 10:0-321-86553-7

Assessment: (Grading Procedures)

- In order to move to the highest level of developmental math (DMAT 0323), a student must achieve 70% or better for an overall grade, with the final exam accounting for 25% of the overall grade, OR successfully pass the TSI Math assessment. Failure to obtain either academic stipulation will result in repeating 0313. The course grade will be computed according to the following scoring system:
- Homework (MML) – 25%
- Major Exams – 35%
- Quizzes – 15%
- Final Exam – 25%

Content Covered:

Chapter R: Pre-Algebra Review

Chapter 1: The Real Number System

Chapter 2: Equations, Inequalities, and Applications

Chapter 3: Graphs of Linear Equations and Inequalities in Two Variables; Functions

Chapter 4: Systems of Linear Equations and Inequalities

Chapter 5: Exponents and Polynomials

Chapter 6: Factoring and Applications

*******The student can be “College Ready” by obtaining a 350 or higher on the TSI Assessment. A student can take the TSI Assessment at any time during the semester.*******

Students cannot be exempt from the final exam.

Students must take the TSI Assessment.

This syllabus is subject to change by Ranger College at any time.