

Algebra 2

Teacher: Donna Dement
Email: rddement@att.net

Course Overview

Algebra 2 requires the successful completion of Algebra I. This course continues the examination of the basic structure of real numbers, algebraic expressions, and functions. The topics studied are linear equations, inequalities, functions and systems, quadratic equations and functions, polynomial expressions, and the elementary properties of functions. Problem solving and an understanding of these topics are the major themes of this course.

Course Planner

Fall Semester

Chapter 1: Equations and Inequalities
Chapter 2: Linear Relations and Functions
Chapter 3: Systems of Equations and Inequalities
Chapter 4: Matrices
Chapter 5: Quadratic Functions and Relations
Chapter 6: Polynomials and Polynomial Functions

Spring Semester

Chapter 7: Inverses and Radical Functions and Relations
Chapter 8: Exponential and Logarithmic Relations
Chapter 9: Rational Functions and Relations
Chapter 12: Probability and Statistics
Chapter 13: Trigonometry

Student Evaluation

Quarter grades are determined using the following categories:

- Homework (15 percent)
- Quizzes (25 percent)
- Test (60 percent)

Homework will be checked for completion and accuracy. Homework is to be taken seriously. Each quiz score is determined based on the number of problems and evaluates student's homework habits. Test will mostly be response based questions with a few multiple choice questions.

Classroom Materials

Students will need the following items for this class:

- 3 Ring Binder
- Pencils & Red Pens
- Loose Leaf Paper & Graphing Paper

Graphing Calculator

Each student is **required** to have a graphing calculator in class daily. The "official" calculator of record used in the classroom is the **TI-84**, although students may use the TI-83. No student should use a TI-89. By using a graphing calculator, we can explain results graphically, numerically, verbally, and analytically. Students will be taught how to use only the TI-84 and TI-83 calculators and will be expected to use them. Students who purchase another brand or type will not be able to follow class instruction. The graphing calculator is a tool, not a crutch. It is to be used to check answers and not as the primary source of working all problems. The teacher holds the right to determine if a calculator will be allowed on any quiz/test.

Resources

Primary Textbook

Algebra 2, Glencoe Mathematics: The McGraw-Hill Companies, 2010

Credit

One-half credit will be awarded for each successfully completed semester.

Tuition and Fees

Tuition is \$450 per year for the course, payable in cash only. Payments may be made annually, semi-annually, or monthly. See contract for details.