

# Algebra II

Algebra is possibly the most practically useful branch of mathematics. Its applications are far reaching and they can be seen in almost every aspect of daily life. During this course we will explore various aspects of algebra and the real world applications of this wonderful art. Many mathematicians have spent their entire lives working diligently on the mathematics formulas and principles that are given to you in this textbook. All they ask in return is for YOU to use the principles that are given to you in this textbook. All they ask in return is for YOU to use the theorems, ideas, and concepts properly and possibly to add your own personal insight to them.

## Course Objective

This Course is designed to explore the advanced principles of Algebra. The students will explore the ideas behind this mathematical branch and examine real world applications of algebra.

## Instructor Information

Name: Bryan Medlin

Room Number: 242

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Class Website – [bmedlin@weebly.com](http://bmedlin@weebly.com)

## Devise Use

Electronic devices will be used in the instruction of this class. They are not to be used for social purposes during the class. The mandated guidelines for punishment will be followed for the improper use of these devices.

## Grading Policy

### Algebra 2

25% Formative Assessment (Homework/Projects)

75% Summative Assessment (Tests/Quizzes)

**\*\*Mathematics Department Policy States that there will be no credit for late work\*\***

## Semester One Course Outline

Unit 1 - Linear Equations Solving

Unit 2 - Linear Equations Graphing

Unit 3 - Systems of Linear Equations

Unit 4 - Quadratic Equations

Unit 5 - Polynomials

## Semester Two Course Outline

Unit 6 - Rational Exponents and Radical Functions

Unit 7 - Exponential and Logarithmic Functions

Unit 8 - Rational Functions

Unit 9 - Trigonometric Ratios and Functions

Unit 10 - Conic Sections

### **Class Guidelines**

1. Be respectful to everyone involved in the class setting. Respect is a highway that goes from student to student, students to teacher and teacher to students.
2. Always come to class Prepared to learn, this meant to have the materials for the class at the ready, be prepared for quizzes and tests, and all homework completed. You are strongly encouraged to be in your seat and ready for class to begin when the bell sounds.
3. Take an active role in your education. I expect all students to focus their attention upon mathematics from the opening of the class period to the closing.
4. Obey all school rules

### **Materials Needed**

Textbook- Algebra 2 (McDougal Littell)

Notebook - Designated to mathematics use

Writing Utensil - pencil is **preferred**

A Calculator (preferably a TI-30XS Pro)

An open mind about expectations for the course and a good work ethic.