



## Course Syllabus Algebra II



### Course Description:

Algebraic concepts learned Algebra I will be extended. Emphasis is placed on solving systems of linear inequalities, manipulating exponential functions, finding roots of polynomial expressions, and solving equations and inequalities involving absolute values. Trigonometric identities and logarithmic functions will be introduced.

### Prerequisite & Course Information:

Algebra I

1 year course, open to grades 10, 11, 12

### Course Outline Topics:

Basic Concepts of Algebra

Inequalities and Proof

Linear Equations and Functions

Products and Factors of Polynomials

Rational Expressions

Irrational and Complex Numbers

Quadratic Equations and Functions

Variation and Polynomial Equations

Analytic Geometry

Exponential & Logarithmic Functions

Sequence and Series

Statistics and Probability

Matrices and Determinants

\*Topics will be modified when necessary

### Grade Determination:

40% Test

40% Homework

20% Quiz

### Expectations:

Bring your book, pencil, paper, and laptop to class.

Expect to have a weekly quiz.

Tests will be given at the end of each chapter.

**Finals must be taken unless the student met or exceeded on the PSAE test.**