

Algebra II – Credit Recovery

COURSE DESCRIPTION:

Algebra II expands on the mathematical content of Algebra I and Geometry. While the topics in Algebra II are interesting and important in their own right, they also serve as a basis for the material presented in subsequent mathematics courses, e.g. trigonometry and calculus. Emphasis will be on functions and algebraic solutions to various types of problems. Abstract thinking skills (including some proofs, and the notion of ‘generality of a statement’) will be introduced and cultivated.

COURSE OBJECTIVES: After completing the course, students will be able to:

- Be conversant with a number of mathematical topics (see the Course Description for a list of these topics)
- Have enough computational skill with each topic that they will be able to correctly apply that skill whenever such skill is required in a subsequent mathematics course
- Come away with an understanding and appreciation of where the topics arise in real world applications

PREREQUISITES: Algebra I

COURSE LENGTH: Two semesters

REQUIRED TEXT: None

COURSE OUTLINE:

Semester 1

- Absolute value
- Systems of linear equations
- Polynomials
- Complex numbers
- Quadratics
- Conic section

Semester 2

- Composition of Functions
- Exponential and Logarithm Functions
- Counting
- Sequences and Series
- Mathematical Induction