

Course Description
Basic Algebra I

Description:

Students will develop an organized approach to solving a wide variety of algebraic problems utilizing the symbols, methodologies, and language necessary to understanding Algebra. Algebraic skills and concepts are developed and used in a wide variety of problem-solving situations. Pre-Requisites: Grade of “C” or better in Pre-Algebra. This is a one-year course, 5 credits each semester will be awarded with a passing grade.

Learning Objectives:

Students will have an understanding and be able to solve mathematical equations covering the following processes:

- Algebra: Arithmetic with Letters
- The Rules of Arithmetic
- Linear Equations with One Variable
- Applications of Algebra
- Exponents and Polynomials
- Factoring
- Data, Statistics, and Probability
- Fractions and Algebra
- Linear Equations and Inequalities in the Coordinate Plane
- Systems of Linear Equations
- Irrational Numbers and Radical Expressions
- Geometry
- Quadratic Equations

Curriculum:

Textbook: Algebra, AGS

Workbook and solutions manual should be utilized.

Methods of Assessment:

May include but not be limited to:

- *Review of student work by the Independent Study Teacher
- *Chapter and Unit tests
- *Student grades on text practices
- *Final Examination

Key Assignments:

Unit by Unit problem Sets
End of Chapter Tests
Final Examination

Grading Scale:

30%
50%
20%