Course Code: MTH301

Course Description: The first part of this course will be devoted to a review of the concepts and skills learned in Algebra I. Topics will be extended to include methods of solving equations, solutions of systems of equations, inequalities, factoring polynomials, work with exponents and scientific notation, graphing, radicals, conic sections, logarithms, sequences and series, complex numbers and trigonometry.

Outline: Algebra 301

Pre-test

Unit 1: Linear Fundamentals

Unit 2: Linear Equations and Inequalities

Unit 3: Functions

Unit 4: Special Functions and Algebraic Skills

Unit 5: Quadratics

Unit 6: Polynomial Functions

Post-test

Course Objectives:

- Solving Problems

- Number, expressions and operations

- Quadratic functions and equations

- Exponential and logarithmic functions and equations

- Additional functions and equations

- Probability, data and distributions

- Reasoning, problem solving and communication

Number/Description of Assignments, Projects, Activities, etc:

There are 26 assignments, 26 quizzes, 6 exams, 1 pretest, 1 posttest and 7 discussion questions.

Materials: All course materials have been approved for district use.

Timelines & Methods for evaluating student progress: Students are expected to log in daily and submit assignments on a weekly basis. Progress will be evaluated each month based progress towards assignment completion of assignments.

This course meets state and district graduation requirements in the area of Algebra.

Weekly contact will be conducted through a submitted assignment with instructor feedback. Students who do not submit an assignment are expected to email or call his/her instructor.

Each student is expected to spend a minimum of five hours per week on this course. Additional hours may be necessary to complete the course successfully.

Beginning & end date