

COURSE NUMBER: 602
COURSE TITLE: Algebra I
COURSE LENGTH: Year, Two Credits
PREREQUISITE: Semester 1- Achieving a grade of C- or better in Pre-Algebra or 8th grade Math
Semester 2- Achieving a grade of C- or better in Algebra I during Semester 1 **or instructor's approval**

Beginning with the freshmen class of 2007, students must pass one year of Algebra I to graduate. Students having an I.E.P. showing a math disability will be exempt from this requirement.

GRADE LEVEL: 9, 10, 11, or 12

COURSE DESCRIPTION:

This course is designed for college and non-college bound students. It is the study of basic equations, inequalities, graphs and their use in problem solving. Material for the course is taken mainly from a text with some supplementary material provided by the instructor.

COURSE RATIONALE:

The thinking skills and ability to draw conclusions involved in algebra are very important to success in computer operation and programming. Algebra concepts and skills are essential to the study of many of the topics and courses taught in high school and college.

METHOD OF INSTRUCTION:

The general mode of presentation is lecture and discussion with time given each day for student questions. Assignments are given daily and their completion is a requirement of the course..

ASSESSMENT:

Grades are determined by tests, quizzes and daily work. The major portion of the grade will be determined by tests.

CRITICAL OBJECTIVES:

1. be introduced to variables and open sentences
2. be exposed to computation with real numbers
3. be introduced to polynomials and methods of interpreting and simplifying them
4. be introduced to factoring and its applications
5. be introduced to functions and relations
6. be introduced to graphing of equalities and inequalities
7. be introduced to a least three methods of solving systems of linear equations
8. be introduced to gain experience in problem solving

