

COURSE NUMBER: 603
COURSE TITLE: Geometry
COURSE LENGTH: Year, Two Credits
PREREQUISITE: Semester 1-Achieving a grade of C- or better in second semester Algebra I.
Semester 2-Achieving a grade of C- or better in first semester or instructor's approval.
GRADE LEVEL: 9, 10, 11, or 12

COURSE DESCRIPTION:

Geometry is a math course recommended for students who had average success in Algebra I and wish to take more math. It is recommended for all those students who plan to further their education after high school. Topics studied include: congruent triangles, parallel and perpendicular lines, quadrilaterals, right triangles and trigonometry, circles, polygons and area, coordinate geometry, and transformations.

COURSE RATIONALE:

The student should understand the nature of a deductive proof, think discriminately and logically, acquire information about the geometric figures, and maintain and develop algebra skills. Students should realize the geometric forms in their surroundings and the application of geometry in their lives. The course is important for any college bound student, and the trade and technical school bound students.

METHOD OF INSTRUCTION:

This class is basically a lecture/discussion type of class with student participation encouraged.

ASSESSMENT:

Grades will be determined from the results of quizzes, unit tests and daily assignments.

CRITICAL OBJECTIVES:

1. Better understanding the nature of a mathematical system and to appreciate the basic structure of geometry.
2. Develop an understanding of the concepts of size, shape, and position prominent in the student's environment.
3. Gain a basic understanding of the methods of coordinate geometry and recognize the way in which algebra and geometry complement each other.
4. Perceive the role of inductive and deductive reasoning in both mathematical and non mathematical situations.
5. Learn to use a graphing calculator to help aid in problem solving.
6. Improve and maintain previous mathematical skills.
7. Enable the student to think discriminately and logically.

