

# Course Syllabus

# GEOMETRY

**TEACHER:** Peter Fender

**COURSE NUMBER:** 1206310

**COURSE DESCRIPTION:** This course is to develop the geometric relationships and deductive strategies which can be used to solve a variety of real-world and mathematical problems.

**PREREQUISITES:** Students should have successfully completed Algebra 1 or 1B.

**COURSE OBJECTIVES:**

- 1) Demonstrate an understanding of the terminology and fundamental properties of geometry.
- 2) Use geometric models to represent and solve problems.
- 3) Develop and understanding of an axiomatic system.
- 4) Compare and contrast the relationships between plane and plane and solid geometry (parallelism, perpendicularity, congruence, and similarity).
- 5) Demonstrate and understanding of transformational (including flips, turns and slides), and coordinate geometry.
- 6) Measure quantities in the real world and use the measures to solve problems: Plane and solid figures, including perimeter, area, volume, and application of the Pythagorean Theorem.

**COURSE REQUIREMENTS AND EVALUATION:**

- I. Exams (class-tests, semester exams-2)
- II. Quizzes (section quizzes, vocabulary)
- III. Homework Assignments
- IV. Class Participation/worksheets/text
- V. Comprehensive Final Exam
- VI. Task/Vocabulary/Reading/FCAT Training Sheets

**TEXT AND OTHER RESOURCE MATERIAL:**

Geometry; Prentice Hall; Reading and Math Literary Masters; FCAT Transparency Warm-ups