

## **Course Description**

### **Grades 9-12 Geometry**

**Philosophy Statement:** We believe the laws of mathematics are not arbitrary creations of man, but an absolute creation of God (Colossians 1:16-17). While gaining mathematical knowledge and developing essential life skills, students will recognize that God is a God of order and infinite wisdom.

**Course Objective:** This course covers plane geometry. Both deductive and inductive reasoning is emphasized. Proofs are written after first developing reasoning and logic skills.

**Textbooks:** Geometry  
Prentice Hall  
Copyright 2011

#### **Materials:**

- Compass
- Graph Paper
- Protractor
- Ruler
- Colored Pencils
- Pencil Pouch
- 2" binder w/ dividers
- Calculator TI30 x IIS
- Loose leaf paper
- Pencils

**Time Allotment:** 46 minutes per day, 5 days per week

#### **Course Content:**

- Tools of Geometry
- Transformations
- Measuring in Space
- Quadrilaterals
- Reasoning and Proofs
- Lines
- Relationships in Triangles
- Polygons
- Measuring in a Plane
- Circles
- Construction
- Trigonometry

#### **Areas to be evaluated:**

- Homework
- Chapter Tests
- Semester Tests
- Quizzes

**Additional activities:** None