

Holy Family Academy
Ad Veritatem Per Fidem Et Rationem
Grade 9

Instructor: Mr. Forrester

Course Title: Geometry

Course Description: This course is an introduction to the topics of Geometry. The student will learn the basics of plane and solid figures, how to reason in geometry, and how to demonstrate geometric propositions.

Course Objectives:

1. To learn plane and solid geometry
2. To learn what constitutes a demonstration, and become proficient in articulating and making demonstrations
3. To be able to solve geometrical problems using both geometric and algebraic principles

Scope and Sequence:

Chapter 1: Basics of Geometry

Logic tutorial

Chapter 3: Perpendicular and Parallel Lines

Chapter 4: Congruent Triangles

Chapter 5: Properties of Triangles

Chapter 6: Quadrilaterals

Chapter 10: Circles

Chapter 8: Similarity

Chapter 9: Right Triangles and Trigonometry

Chapter 11: Areas of Polygons and Circles

Chapter 12: Surface Area and Volume

Course Texts:

Larson, Bowell, and Stiff, *McDougal Littlel, Geometry*, (McDougal Littell: Boston), 2004.

*Other materials may be assigned as handouts at the instructor's discretion

Course Supplies:

-Calculator (scientific at least)

-Loose-leaf paper (lined or plain)

-Graphing paper

-Pens

-Pencils

-Ruler (optional, but having some kind of straight edge will be helpful)

-Compass or string (optional)

Grading:

- Class Participation: 10%
- Homework: 35%
- Tests: 35%
- Exam: 20%

Class Participation:

Class participation will be graded according to four tasks that can and should be done each class. 1) Be on time to class, 2) Bring all appropriate materials for class, 3) Have your homework (even if you didn't finish, have it out and that will count), 4) Be attentive in class, and make it a personal goal to say at least one thing each class (even if it's just a question about what page we're on, or asking someone to repeat themselves).

Homework:

Homework will primarily be graded according to effort, not necessarily accuracy. Even if you get every problem wrong you may still get a passing grade for a particular assignment.

Late/Make-up Work:

If you are absent when an assignment is handed in, then you have as many school days as you were absent to turn in the work for full credit. Work will be considered late after those days have expired. Late work will receive a grade no greater than 80% unless I'm in a bad mood, then good luck getting any credit at all.

SWAG

No homework or test grade is necessarily final until the semester ends. Students have the standing option to make corrections on homework OR tests to improve their grade.

Extra Assistance:

I am committed to the success of every student in this class, so I am available to collaborate with each student in the development of individual plans to overcome particular obstacles. Please see me outside of class, or email me at mforrester@holyfamilyacademy.org.

The instructor reserves the right to change or modify this course and the syllabus subject to appropriate and timely notice to the students enrolled in this class