

# GEOMETRY HONORS

MAT 231/232 • 2019-2020

Mrs. Marcy Kinnane

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phone: 847-451-3040

available hours: 2:30pm-3:25pm

## Course description\*

This course covers topics parallel to Geometry, while at an increased level of depth, rigor, and pacing. This is a course of study that will develop powers of visualization while building knowledge of the relationships between geometric elements. Furthermore, it is a tool to develop deductive reasoning and will provide for the integration of plane and solid concepts with an effective use of algebra.

## Credit weight\*

Honors

[Link to published core curriculum map\\*](#)

## Priority Standards\*

Experiment with transformations in the plane	Apply trigonometry to general triangles
Understand congruence in terms of rigid motions	Understand and apply theorems about circles
Prove geometric theorems	Find arc lengths and areas of sectors of circles
Make geometric constructions	Translate between the geometric description and the equation for a conic section
Understand similarity in terms of similarity transformations	Use coordinates to prove simple geometric theorems algebraically
Prove theorems involving similarity	Explain volume formulas and use them to solve problems
Define trigonometric ratios and solve problems involving right triangles	Visualize relationships between two-dimensional and three-dimensional objects
	Apply geometric concepts in modeling situations

<b>Grading Categories*</b> (Common for all instructors of this course)	<b>Category Percent Weights*</b> (Common for all instructors of this course)
Unit Tests/Assessments (Common for all instructors of this course)	45%
Quizzes	35%
Classwork/Participation	10%
Homework	10%

**Leyden High School D212 Common Grading Scale\*: 90 - 100 A; 80-89 B; 70 - 79 C; 60 - 69 D; Below 60- F**

Grades in this class will be updated weekly (minimum) and are available via the [eSchool / Home Access Center](#)

### **Materials Needed:**

Chromebook

Calculator (*TI-36X Pro* will be provided by the school bookstore. It must be returned at the end of the school year.)

Pencils

2 Highlighters

Notebook

Folder

MVP Module Packets (Provided by teacher)

Compass (Keep at home)

Ruler (Keep at home)

### **Retake/Late Work/Missing Assignment Policy**

There are no "retakes" for quizzes or tests.

There are PBO's (Points Back Opportunities) for quizzes (not tests).

Late homework assignments must be turned in by 3:25pm on the day it was due; you will earn partial credit for the assignment.

Following an absence, you are still responsible for making up and turning in any missed assignments in a timely fashion.

### **Other information**

You are always welcomed and encouraged to come in after school (2:30pm-3:25pm) to see your teacher for additional help.

