

GEOMETRY HONORS

MAT 231/232 • Semester, year

Ms. Zeppetello

email: szeptello@leyden212.org

phone: (847) 451-3040

available days and hours: Rm 145

M - F => 7 - 7:30am and 2:30 - 3:30 pm

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 a 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

Grading Categories* (Common for all instructors of this course)	Category Percent Weights* (Common for all instructors of this course)
Homework	10%
Class Participation	10%
Quizzes	35%
Tests	45%

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

Materials Needed

- Notebook (3 - 5 subject suggested).
- writing utensil (pencil included).
- charged Chromebooks

Retake/Late Work/Missing Assignment Policy

- Late work not excepted past 3:00 of the due date for any credit.
- 2 days to make up homework after an absence.
- No quiz or test retakes.

Other information

Homework	10%
Class Participation	10%
Quizzes	35%
Unit Exams	45%

*Class projects are placed in the homework or quiz category.

***There is a default computer usage grade in which students can lose credit if computers are; not charged, not present in class or used inappropriately in any way.**