

Geometry

MAT 221/222
2019-2020 School Year

Mrs. Marcy Kinnane

mkinnane@leyden212.org
(847) 451-3040
Availability: M-F 2:30pm-3:25pm in Room 139

Course description*

This course develops visualization skills while building knowledge of the relationships between geometric elements. Furthermore, this course develops deductive reasoning and provides for the integration of plane and solid concepts with an integrated review of algebra content.

Credit weight*

College Prep

Priority Standards*

| | |
|---|---|
| Understand congruence and similarity using physical models, transparencies, or geometry software. | Understand and apply the Pythagorean Theorem. |
| Experiment with transformations in the plane. | Define trigonometric ratios and solve problems involving right triangles. |
| Use coordinates to prove simple geometric theorems algebraically. | Translate between the geometric description and the equation for a conic section. |
| Prove geometric theorems. | Apply geometric concepts in modeling situations. |
| Draw, construct, and describe geometrical figures and describe the relationships between them. | Solve real-world and mathematical problems involving area, surface area, and volume. |
| Understand congruence in terms of rigid motions. | Explain volume formulas and use them to solve problems. |
| Prove theorems involving similarity. | Find arc lengths and areas of sectors of circles. |
| Understand similarity in terms of similarity transformations. | Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres. |

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

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

Materials Needed During Class:

- Pencil(s)
- Notebook
- Folder
- Unit Note Packets (provided by teacher)
- Chromebook
- Calculator (*TI-36X Pro* will be provided by the school bookstore. It must be returned at the end of the school year.)

Retake/Late Work/Missing Assignment Policy

- **Retakes** - Students may NOT “retake” any quizzes or unit tests.
- **Test & Quiz Corrections** – Students may make corrections to tests and quizzes for up to half of the lost points. Students have one week to make an appointment and perform corrections.
- **Missing Assignment Policy** - Homework is assigned daily and posted on students’ Google Calendar. If a student is absent, he/she is required to pick up any assignments that were missed upon return from the absence. The student must complete and turn in the missing assignments in a timely manner, which is typically 2 days following an absence. Any assignments that are missing will receive a score of 0 in the gradebook.
- **Late Work** – Late assignments can be completed and turned in after school with Mrs. Kinnane for partial credit.