



Geometry/Algebra II

Instructor: Mr. Meléndez

Contact Information

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Course Description

This is a college preparatory math course that focuses on integrating algebra and geometry concepts. There will be an emphasis on communicating quantitative ideas and solving applied math problems. This course is intended for students that have successfully completed an Algebra 1 level course with high proficiency.

Course Math Standards

You will be evaluated based on your mastery of the Cambridge/Common Core Math Standards

- Number & Quantity – irrational numbers, complex numbers, unit analysis
- Algebra – factoring, rewriting expressions, solving linear, rational, and polynomial equations
- Functions – linear, quadratic, polynomial, trigonometric, logarithmic, exponential, and inverse functions
- Geometry – congruency, similarity, and geometric properties for real world applications
- Trigonometry – trigonometric functions and applications
- Modeling – representing and interpreting data through math models.

Daily Required Materials

Please have the following materials with you every day in class:

- **Quadriple, bound math journal**
Your journal should be used on a daily basis for the purpose of taking notes, writing reflections, or addressing any other classroom tasks. This journal should serve as a valuable resource for studying and reviewing concepts. Take great care and pride with your journal as this will serve as your most valuable resource.
- **pencils/pens** (mechanical pencils are recommended)
All assignments, quizzes, and exams should be done in pencil unless told otherwise.

- **scientific calculator** (has *sin*, *cos*, *tan*, and *log* buttons) *The use of a calculator app on your phone is never allowed during class time.*
- **2” -three ring binder:** The three ring binder should be used to keep all class handouts as well as all of your assignments (graded or ungraded) neatly and chronologically (most recent on the bottom). Please place the date in the upper right hand corner of every assignment and handout. You may keep this in the classroom if you wish.

Classroom Behavioral Expectations

- Be on time, appropriately dressed, and have all of your required daily materials
- Every class is crucial! Make a great effort to attend every class; more than two absences (excused or not) per quarter is too many!
- Be respectful of everyone and treat them with dignity, respect, and kindness at all times; be willing to collaborate; help others and let them help you. We are a *community* with a common learning mission
- Follow the classroom and school rules and policies
- Take care of the classroom facilities and all the materials and equipment contained within it. Always follow the teachers’ instructions with respect to proper use of materials and equipment. Please help clean up and return all items to their designated places.
- Be diligent, focused, and engaged at all times – give maximum effort

Classroom Policies

- No food, candy, snacks, or beverages (besides water) are allowed in the classroom. Gum is allowed provided it is not a distraction for you or others.
- Personal electronic devices (phones, tablets, etc.) should be “off” and out of sight unless permission is granted for their use in a classroom activity or for taking a picture of a whiteboard display or demonstration. You may not “take” any calls during class. You must leave your phone in the classroom whenever you leave for the bathroom.
- Wait for an appropriate time to ask permission to go to the restroom and please do so sparingly (1-2 times per week). Please be sure to sign yourself “out” only after permission has been given.
- Healthy snacks and beverages can be consumed in the classroom during designated tutoring/study sessions that take place before school, during lunch, or after school. Please clean up after yourselves.

Start of Class Procedures

At the official class start time please take a seat and attend to the “First Five” task that will be displayed on the board. You will have five (5) minutes to complete the task in your journal. During this time you should work quietly and independently. You should be prepared to defend, justify, or explain your response.

Assignments

The completion of assignments/homework is crucial to your success in this class. The intent of homework is not to serve as “busy” work, or just practice, but to help you develop conceptual understanding, discipline, and problem solving skills. Although most assignments will not be collected or graded, it is in your best interest to complete all of your assignments. We will whiteboard and discuss several of the assigned problems in class on a daily basis. If you have not completed the work, you will not be able to participate actively and learn as much as possible. Please note on the upper left hand corner the approximate amount of time that you were actively engaged on the assignment. Your success on the written exams will depend largely on how well you engage with the assignments *both* in and outside of class time. I will frequently do a quick inspection of your assignments to ensure that you are working diligently. These assignments will have firm deadlines with penalties for late submittals.

Evaluation and Assessment

You will be graded based on the level to which you master the standards and objectives by the end of the course. However, the following percentages will serve as guidelines for determining your current grade. You are also guaranteed a grade no lower than that which falls under this scale.

A*	≥ 97%
A	90-96%
B	80-89%
C	70-79%
D	60-69%

Your grade will be weighted approximately in the following manner:

Formal Written Assessments (quizzes, exams)	60%
Assignments, Journal and Binder	10%
Participation; Informal Assessments & Activities	15%
Class Final Exams in Dec. and May	15% *

**The semester exams in December and May will be weighed more heavily in the case where it is beneficial to the student's overall grade.*

Tutoring is generally available during lunch and every day after school from 4-5PM. This will take place in room 201. Please see me as soon as possible for any concerns or difficulties that you may have. I want this class to serve as a great learning experience for you and I sincerely want to help you achieve your academic goals.