

Syllabus – Geometry  
Collegiate School of Medicine and Bioscience  
2024-2025

## Instructor:

Name: Mr. Yahya Alasady

Email: [Yahya.Alasady@slps.org](mailto:Yahya.Alasady@slps.org)

## Course Description:

Geometry is a critical component of a mathematics education because students must relate concepts from Algebra I and Algebra II to geometric phenomena. This course requires students to focus on logical proof and critical thinking when solving problems or evaluating arguments. This Geometry course includes an in-depth analysis of plane, solid, and coordinate geometry as they relate to abstract mathematical concepts and real-world problem situations. Topics include logic and proof, parallel lines and polygons, perimeter and area analysis, volume and surface area analysis, similarity and congruence, trigonometry, and analytic geometry. Emphasis will be placed on developing critical thinking skills as they relate to logical reasoning and argument.

## Course Sequence:

### Fall Semester

1. Foundations of Geometry
2. Transformations
3. Triangle Congruency
4. Similarity

### Spring Semester

5. Right Triangles and Trigonometry
6. Relationships in Triangles
7. Quadrilaterals and Coordinate Geometry
8. Circles
9. Two- and Three-Dimensional Models

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## Classroom Expectations:

- **Be Respectful:** This applies to the teacher and to your fellow students. Being respectful means that you follow directions, stay awake and on task, pay attention, use appropriate language, and respect the classroom and supplies.
- **Be Present and Participate.**
- **Be Prepared:** Be on time for class and be ready to actively participate. Have your notebook, pencils, and calculator readily available during the entire class period.
- **Be Responsible:** If you feel you do not understand a new topic, contact me for help. Ask for help when you need it and seek out resources. Take ownership of your learning.
- **Practice Integrity:** Always turn in your own work. Do not tell people the answers; explain the process to them so they can learn how to find the answers themselves. This will be important to remember while completing work in breakout groups.

## Policies:

- **Homework Policy:** You will be assigned projects that require work over several class periods. You will be provided with sufficient time in-class to complete assignments.
- **If Absent:** If you miss class, you can find your missed homework assignments on Microsoft Teams. It is your responsibility to find out if there is any in-class work you need to make up. You will be able to turn in missing assignments within one week of your absence at no penalty.
- **Late Work:** Late work will be accepted for one week after its due date for 80% of your earned score (20% penalty). If there are exceptional circumstances, I may grant you an extension if you make the request and explain the circumstances BEFORE THE DAY IT IS DUE. Such requests should be made through email if possible. After the one-week deadline, all late work will not be accepted.
- **Reassessment & Make-up Policy:** Retakes will be offered following every test. To retake an assessment, the student must have all homework turned in at 8am the day of the test and have all the constructions for that unit done in their constructions book. All assessments must be completed in one sitting, so plan enough time for your retake.
- **Academic Dishonesty:** Student's work is expected to be his or her own. Cheating, in any form, will not be tolerated. If a student is caught cheating, he or she will receive a zero on the assignments and parents/guardians will be contacted.

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2024-2025

## Websites:

The following tools do not provide explanations, but they are especially useful tools to have available.

- [Desmos Graphing](#)
- [Wolfram Alpha](#)
- [GeoGebra](#)

## Grading:

- Assessments: 45%
- Classwork: 30%
- Semester Final Exam: 15%
- Homework: 10%

## CSMB After School Math Tutoring:

Starting in September, math tutoring will be available to all Collegiate students after school from 3:15 PM – 5:15 PM. Transportation is available.

## CSMB Math Tutoring Center:

Throughout the year, Mr. Hommowun will provide math tutoring during mentor period.

Invite-only mentor tutoring is provided on Wednesdays and Thursdays. Students will be expected to attend if their teacher stamps their passport and writes “math tutoring center.”

Students sign up to attend mentor tutoring on Mondays, Tuesdays, and some Fridays. See Mr. Hommowun to sign up in advance.

## Core Values:

**Strong Academic Habits:** Collegiate School of Medicine and Bioscience is dedicated to teaching academic habits, which will sustain lifelong learning in students. Students learn how to

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2024-2025

learn -- whether it be taking notes, studying, or writing -- prepares students for success in college and in life. Our teachers nurture confident and critical thinkers who have mastered academic skills and competencies across many academic disciplines.

**Respect:** Collegiate School of Medicine and Bioscience offers a safe and inclusive school community where individuals are expected to respect themselves, one another, and our environment. Through personal relationships with diverse groups and individuals, we learn to understand others and ourselves and work effectively as part of a team.

**Compassion & Ethics:** Collegiate School of Medicine and Bioscience believes that the development of compassion and being of ethical mind — and the desire to make a positive difference in the lives of others — is essential to being a productive member of a community. Through the study of multiple viewpoints and the act of service, students develop empathy for those around them.

**Integrity:** Collegiate School of Medicine and Bioscience encourages all members of its community to hold themselves to the highest code of conduct, which includes academic honesty. Led by a commitment to the common good, we strive to do what is right -- even when nobody is looking.

**Self-Discipline:** Hard work and self-discipline are essential components for success. CSMB challenges students to develop a strong work ethic and the internal motivation to persevere through times of challenge.

**Intellectual Curiosity:** Collegiate School of Medicine and Bioscience encourages students' natural inquisitiveness and wonder about the world. Asking questions and taking risks is as important as searching for the right answer. With the desire and courage to move confidently into the future, students can adapt to an ever-changing future in pursuit of their dreams