



Hillcrest High School | Geometry with Statistics CP/H

Room 212

Mr. Gillespie/Mr. Rullo | tgillespie@greenvilleschools.us
arullo@greenvilleschools.us

Course Description

In Geometry with Statistics (GS), students incorporate knowledge and skills from several mathematics content areas, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. The focus in GS is concentrated within the strands of Data, Probability, and Statistical Reasoning (DPSR); Measurement, Geometry, and Spatial Reasoning (MGSR); Numerical Reasoning (NR); and Patterns, Algebra, and Functional Reasoning (PAFR).

In the content area of Geometry and Measurement, students build on and deepen prior understanding of transformations, congruence, similarity, and coordinate geometry concepts. Informal explorations of transformations provide a foundation for more formal considerations of congruence and similarity, including development of criteria for triangle congruence and similarity. An emphasis on reasoning throughout the content area promotes exploration, conjecture testing, and informal and formal justification. In the content area of Algebra and Functions, students perform algebraic calculations with specific application to geometry that build on foundations of algebra from seventh and eighth grades. Probability is important because it educates one in the logic of uncertainty and randomness, which occur in almost every aspect of daily life. Therefore, studying probability structures will enhance students' ability to organize information and improve decision making.

*The GS Honors classes will follow the same course outline as the standard geometry curriculum, while exploring the content in greater depth. Students will engage with more challenging problems and, at times, encounter additional topics within various units to enrich their understanding and critical thinking skills

Learning Objectives:

1. Make sense of problems and persevere in solving them strategically.
2. Explain ideas using precise and contextually appropriate mathematical language, tools, and models.
3. Demonstrate a deep and flexible conceptual understanding of mathematical ideas, operations, and relationships while making real-world connections.
4. Use critical thinking skills to reason both abstractly and quantitatively.
5. Identify and apply regularity in repeated reasoning to make generalizations.

SC Geometry State Standards

Course Textbook:

Savvas - enVision Geometry South Carolina

Geometry Units:

- | | |
|--|---|
| 1. Foundations of Geometry (12 days) | 5. Right Triangles and Trigonometry (10 days) |
| 2. Transformations/Triangle Congruence (13 days) | 6. Circles (12 days) |
| 3. Quadrilaterals and Other Polygons (10 days) | 7. Two- and Three-Dimensional Models (8 days) |
| 4. Similarity (8 days) | 8. Probability and Statistics (5 days) |

Class Materials (* required, others highly recommended)

- | | |
|-----------------------------|------------------------------|
| • 1 ½ inch Binder* | • Colored Pencils or markers |
| • College ruled paper* | • Ruler |
| • Graph Paper* | • Charged Chromebook* |
| • Pencils* | |
| • TI-84 graphing calculator | |

Course Grading Policies, Assessments, & Procedures

Student progress in this course will be monitored through the following for each quarter:

- 10% - Classwork/Homework (Completion grades)
- 30% - Minor (Graded Assignments)
- 60% - Major (Test/Project)

Semester Grade:

- 45% - 3rd nine weeks
- 45% - 4th nine weeks
- 10% Final Exam

Grading Scale:

- A 90-100
- B 80-89
- C 70-79
- D 60-69
- F Below 60

Absences and Make-Up Policies

It is the student's responsibility to obtain the missed notes and assignments from Google Classroom. All assignments and materials will be posted in Google Classroom and may be completed even when the student is absent. Work must be turned in within 5 days of the student's return to school.

Late Work Policy

If a student fails to turn in an assignment (major or minor) on time, then 10 points will be deducted from the student's grade each day for up to five school days from the assignment's due date. After the fifth school day, late work will not be accepted.

Remediation

Students who do not pass a unit will be assigned a corresponding unit in Edgenuity to complete by the end of the quarter. Upon successful completion, the Edgenuity unit grade will replace any assignment grades below 60, with a minimum replacement grade of 60.

Extra Help

Tutoring is available to all students in the media center after school on Tuesdays and Thursdays from 4 - 5:30. I am also available before or after school by appointment only. Please ask for help as soon as you can; do not wait.

Classroom Management Plan / Classroom Expectations

Hillcrest High School expects every student to do their best, work hard, and treat everyone with dignity and respect. In addition to these general school-wide expectations, I have a few class-specific guidelines. In any case where my rules may differ from the rules outlined in the student behavior code, the behavior code will take precedence.

- Students are expected to be in the classroom when the bell rings. They are to promptly get out their materials for the day and start on the bell-ringer.
- Students are expected to have all materials for class every day.
- Students are expected to be respectful of the teachers and other students
- Students are expected to follow all other school and classroom rules.

Electronic device expectations.

- Chromebooks **MUST** be charged every day before school.
- Headphones and personal electronics (cell phones) stored in backpacks at the beginning of the school day and remain there until 3:45.
- Games and social media are off limits during class time.

Discipline Plan

Should you choose to disrupt the classroom, the following consequences will apply:

- 1st Offense: Verbal warning
- 2nd Offense: Conference with student
- 3rd Offense: Contact parents
- 4th Offense: Discipline Referral

*These consequences are subject to change based on the level of severity of the behavior or due to behaviors specifically addressed in the student handbook.

Parental Communication

Backpack is the most efficient way to monitor your child's progress. Every parent is able to create their own login. If you do not have this information, the guidance office can provide you with this information. E-mail is my preferred method of contact, though I will also contact you via phone. Be aware phone calls are directed to voicemail during the school day. I will return your call within 24 hours.

Honor Code

As a member of the Hillcrest High community, we share a commitment to honor and integrity. We value those things that are right and decent; we reject any behavior that fails to meet those standards. Therefore, any act of academic dishonesty will not be tolerated.