“Empowering Every Learner Every Day”



Glenn Hills High School

**Advanced Algebra Concepts and Connections**

Course Syllabus

***Mr. Victor O. Onuoha,* Instructor**

Email address: OnuohVi@boe.richmond.k12.ga.us

**Welcome to the Hills, Home of the Spartans!**

Welcome to the 2025-2026 school year. I am Mr. O, and I look forward to teaching you this year. This is my first-year teaching at Glenn Hills High School. For us to have a successful year, you should consider the following information.

**Course Description and Goals:**

This is the first in a sequence of mathematics courses designed to provide students with a rigorous program of study in algebra, geometry, and statistics and to prepare them for post-secondary work and education. It includes quantities and expressions, linear, quadratic and exponential functions, comparing/contrasting functions and describing data. Instruction and assessment will include the appropriate use of manipulatives and technology. Topics will be represented in multiple ways, such as concrete, pictorial, verbal, written, numeric, data-based, graphical, and symbolic methods. There will be an emphasis of applying these concepts in the context of the real world.

**Online Resources:** [Available Through Launchpad]

Delta Math

FEV Tutor

Flocabulary

Gizmos Math

Nearpod

Progress Learning

**Instruction**: A typical day of instruction will begin with an opener consisting of a few problems to check for prior understanding or to extend learning opportunities. Next, homework will be reviewed and projected with feedback provided. This will be followed by work and instruction which may include problem-solving, questioning, real-world connection tasks, and/or small group projects. A “ticket-out or in the door” problem or summarizing activity will often conclude the lesson. In general, the learning cycle will involve Engagement, Exploring, Applying, and Reflecting as a mathematician.

**Course Outline:** The Algebra Concepts and Connections is divided into several different units.

Unit 0: Think Like a Mathematician (2 Days)

Unit 1 Descriptive and Inferential Statistics (30 Days)

Unit 2 Exponential and Logarithmic Functions (30 days)

Unit 3 Investigating Radical Functions (20 days)

Unit 4 Modeling Polynomial Functions (20 days)

Unit 5 Investigating Linear Algebra and Matrices (15 days)

Unit 6 Trigonometry and Unit Circle (18 days)

Unit 7 Exploring Rational Functions (15 days)

Unit 8 Culminating Capstone Unit (10 days)

**Materials**: You will need your computer DAILY, three-ring notebook, notebook paper, pencil/pen, and composition notebook.

**Homework**: Monday - Thursday. **(Incomplete assignments should be completed for HOMEWORK)**

**Assessment and Grading**:

Major (Assessments/Tests) 40%; Minor (Quizzes/Culminating Tasks) 50%; Participation 10%

**Grading Scale**

**A** = 90 – 100, **B** = 80 – 89, **C** = 75 – 79, **D** = 70 – 74, **F** = 0 – 69

**Important Information:**

**Cell Phones will not be allowed during school hours!**

**Help Sessions** will be offered weekly from 2:15pm – 2:55pm as needed.

A **Quiz or Test** will be given **every week**

Assignments and Infinite Campus final grades will be updated online weekly and as needed.

I encourage you to sign up for Parent Portal to view grades!

**Students are encouraged not to miss class, however if a student is absent, they will have up to 5 days to make up any missed assignments.**

**Student Responsibilities**

Be S.T.R.O.N.G. (Studious, Take Pride, Responsible, Organized, Noble, Goal Oriented) YOU are responsible for your education! YOU determine your success or failure!

High expectations – ALL DAY, EVERY DAY!

Remain SEATED and always PREPARED.

Bring ALL materials to class DAILY (see required course materials section).

Every student is responsible for helping to maintain a clean, safe learning environment. Your area must always remain CLEAN. The floor should be clear of trash, paper, and personal belongings.

Adhere to all policies, rules, and regulations outlined in the student handbook.

**Parent Checklist:**

Periodically ask your child about “what they are learning”. Learning is a team effort.

Encourage development of good study skills, especially organization of time and materials.

If your child needs extra help, tutoring is available. Please also attend conferences for your child.

Remember: Math activities need extra practice time just like sports, dance, and music.

I have read this course syllabus and will support Mr. Bland in educating my child.

**We are a team because we share the same goals. Help me to help him/her succeed in not only in this class but in life.**

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Please detach and return

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Parent: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (please print) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (signature)

Parental Contact Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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