***Mr. Curtis Pryor ,* Teacher**

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

**Course Description and Goals:**

Advanced Algebra: Concepts & Connections is the third course in a sequence of courses designed to ensure career and college readiness. It is intended to prepare students for fourth mathematics course options relevant to their postsecondary pursuits. High school course content standards are listed by big idea, including Data and Statistical Reasoning, Probabilistic Reasoning, Functional and Graphical Reasoning, Patterning and Algebraic Reasoning, and Geometric and Spatial Reasoning. In Advanced Algebra: Concepts & Connections, students will continue to enhance their data and statistical reasoning skills as they learn specific ways to collect, critique, analyze, and interpret data. Students will learn how to use matrices and linear programming to represent data and to solve contextually relevant problems. Students will strengthen their geometric and spatial reasoning skills as they learn how to solve trigonometric equations using the unit circle. In previous courses, students studied how to use linear and quadratic functions to model real-life phenomena.

In Advanced Algebra: Concepts and Connections, students will further develop their functional and graphical reasoning as they explore and analyze structures and patterns for exponential, logarithmic, radical, polynomial, and rational expressions, equations and functions to further understand the world around them.

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

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 25 days

Unit 5: Investigating Linear Algebra and Matrices 15 days

Unit 6: Trigonometry and the Unit Circle 20 days

Unit 7: Exploring Rational Functions 15 days

Unit 8: Culminating Capstone Unit 10 days

**Materials**: You will need a **school laptop**, three-ring notebook, notebook paper, pencil/pen, and composition notebook.

 **Assignments and Absences**

Students will receive a variety of assignments designed to enhance their learning. If a student is absent, the student is responsible for the missed assignment. Students who have an excused absence will be allowed five days to turn in the missed assignment, but the teacher will determine if additional time is needed on a case by case basis. **It is the student’s responsibility to contact me if they are having trouble or need assistance.**

**Course Assessment Plan/Grading Scale:** This course will include many formative assessments (bell work, quizzes, and classwork). The course will also include four countywide common assessments. At the conclusion of the course, in late April all Algebra Connections and Concepts students are required to take the Georgia Milestones Assessment which will count as 10% of their final grade. For this course grades will be assigned as follows:

**Major Assignments – 40% (Unit Common Assessment, Quiz and Projects)**

**Minor Assignments – 60% (Classwork, Guided Notes, Journal Notes, Projects and IXL assignments)**

**Grading Scale**

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

**Homework**: Monday - Thursday. **(Any incomplete assigned work or required assignments)**

**Classroom Expectations and Consequences**

The teacher will discuss the classroom expectations and consequences during class with a PowerPoint Presentation. The classroom expectations and consequences PowerPoint presentation will be posted via Canvas.

**School Expectations**

**Follow all school rules and policies (P.R.I.D.E – PBIS).**

**· P – Principled**

**· R – Respectful**

**· I – Innovative**

**· D – Determined**

**· E – Excellence**

**Conferences**

The primary goal is to meet the developmental needs of each student; therefore, student progress during each grading period will be closely monitored. A Parent conference should be scheduled for all students

earning D’s and F’s at the end of each nine weeks grading period. In order to schedule a conference with your teachers, please contact the Guidance Office at 706-592-2089.

Remind messages-Students and parents.

To sign up for class reminders, please: text @fakd399 to the number 81010 or Go to rmd.at/fakd399

**Please sign and return this page by August 12 for 5 extra point on first quiz.**

**I have read, acknowledged, and understand all that Mr. Pryor’s Algebra C & C syllabus contains.**

**Print Student’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**I have read, received, acknowledged, and kept Mr. Pryor’s Algebra C & C syllabus for my records.**

**Print Parent’s/Legal Guardian’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Parent’s /Legal Guardian’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Preferred Method of contact (Please CIRCLE ALL that APPLY)**

 **Email TEXT PHONE**

**Parent preferred email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Parent Contact Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**