***Mr. B. Bland,* Teacher**

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**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 is divided into several different units.

Unit 0 (5 days) Learners’ Profile Think and Like a Mathematician

Unit 1 (5 – 6 weeks) Descriptive and Inferential Statistics

Unit 2 (5 – 6 weeks) Exponential and Logarithmic Functions

Unit 3 (3 – 4 weeks) Investigating Radical Functions

Unit 4 (4 – 5 weeks) Modeling Polynomial Functions

Unit 5 (2 – 3 weeks) Investigating Linear Algebra and Matrices

Unit 6 (3 – 4 weeks) Trigonometry and the Unit Circle

Unit 7 (2 – 3 weeks) Exploring Rational Functions

Unit 8 (1 – 2 weeks) Culminating Capstone Unit

**Materials**: You will need a laptop(county issued), a three-ring notebook, notebook paper, a pencil/pen, and a 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 needs 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 each semester, students are required to take Advanced Algebra final exam which will count as 20% of their final grade. For this course grades will be assigned as follows:

**Major Assignments – 40%**

**Minor Assignments – 60% (Graded written and virtual assignments – Nearpod, Delta Math, IXL etc.)**

**Grading Scale**

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

**Homework**: Monday - Thursday. **(Incomplete written practice for major assessment, and some will not be graded at the teacher’s discretion)**

**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 – Positive**

**· 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 for your parent to schedule a conference with your teachers, please contact the **Guidance Office** at **706-592-2089.**

**Remind code: alg2-5p**

**By signing below, I acknowledge that I have read and understand the U.S. History Course Syllabus for 2025-2026 school term.**

Parent/ Guardian Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Name (Please Print) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/ Guardian Contact Information :

Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Please Print)

Phone Number : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E-Mail Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_