# Atkinson County High School

Advanced Algebra: Concepts and Connections

**Instructor**

Mr. John Lindsey

**Contact Information**

Atkinson County High School

Daytime Phone – (912) 422-3267

Teacher E-Mail – johnlindsey@atkinson.k12.ga.us

 \*A copy of the class syllabus is posted on the Teacher Webpage.

**Course Description**

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 Content Standards:



**Course Outline**

Unit 1. Descriptive and Inferential Statistics

Unit 2. Exponential and Logarithmic Functions

Unit 3. Investigating Radical Functions

Unit 4. Modeling Polynomial Functions

Unit 5. Investigating Linear Algebra and Matrices

Unit 6. Trigonometry and the Unit Circle

Unit 7. Exploring Rational Functions

Unit 8. Culminating Capstone Unit

**Class Rules**

1. Be on time and prepared for class.
2. Respect your teachers and classmates.
3. Follow the teacher’s directions.
4. Personal electronic devices should neither be seen nor heard. **Cell phones that are seen will be confiscated and turned in to the front office, N0 Exceptions.**

**Conference Scheduling**

Any conference desired by students, parents, and guardians are always welcomed and encouraged. I will be available before and after school, and during my planning period. To schedule a meeting, you may call the school at (912) 422-3267 and schedule a meeting through the school guidance counselor, Mrs. Ashleigh Hunter. I am also available via email at coreyyarberry@atkinson.k12.ga.us.

**Updating Grades**

In order to keep parents informed as to their child's performance in my class, I will enter grades into Infinite Campus on a weekly basis. Parents and students may access Infinite Campus online at any time to view their current status.

**Makeup Work**\*If you have an excused absence it is the student’s responsibility to get the work turned in. You will have 5 school days to make up assignments before they are considered late. If you need additional instructions, you may email me or see me before or after class.  We will arrange a time for you to make up a test or quiz if needed.

**Late Work**Assignments will be given a due date when assigned and due that day at the start of the class period, points will be deducted if the a student turns work in late with the following policy:

2 days late - 80% of the grade

3 days late - 60% of the grade

4 days late - 50% of the grade

After that, a zero may be assigned.

**Grading Policy**

For the Semester, the grading policy will be:

     Quarter 1 and 2:  80%

     Georgia Milestone End of Course Assessment:  20%

For the 80% Quarter Grades, the grading in this class will be:

1. Writing Journals, Daily grades and Homework will be averaged together for 20% of the final grade.
2. Quizzes and Projects will be averaged for 30% of the final grade.
3. **Tests will be averaged for 50% of the final grade.**

**Grading Scale**

A= 90-100

B= 80-89

C= 70-79

F= 69 and below

**Cheating/dishonesty disclaimer**

A student who is found to be cheating will receive a grade of “0” on the assignment. The parent or guardian of the student will be called in for a conference.

**Tutoring**

After-school tutoring will be available.  I will send information home when the schedule has been approved.

I have read and understand the contents of this syllabus.

Student signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Name (Print): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   Block: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

I have read and understand the contents of this syllabus. I have also discussed this syllabus with my child.

Parent signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent email:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Parent phone number:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I prefer to communicate through: (circle all that apply) email text phone call

Many assignments will be completed using chromebooks and require internet access. Let me know below if your student will need to check out a chromebook or mobile hotspot in order to complete assignments.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Revised July 2024