

**COURSE INFORMATION**

**SYLLABUS-ADVANCED ALGEBRA 2**

**SY 2025-2026**

**TEACHER INFORMATION:**

* KALPANA KATAM
* katamka@boe.richmond.k12.ga.us
* Room Number: 104

**COURSE DESCRIPTION**

**COURSE ADVANCED ALGEBRA 2-MAKING A: 1ST SEMESTER**

**COURSE ADVANCED ALGEBRA 2-MAKING B: 2ND SEMESTER**

**GENERAL DESCRIPTION**

Advanced Algebra: Concepts & Connections is the culminating course in a sequence of three high school courses designed to ensure career and college readiness. It is designed to prepare students for fourth course options relevant to their career pursuits. High school course content standards are listed by big ideas including Data and Statistical Reasoning, Probabilistic Reasoning, Functional and Graphical Reasoning, Patterning and Algebraic Reasoning, and Geometry Patterning and Spatial Reasoning. This course is designed as the third course in a three-course series. 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, rational expressions, equations and functions to further understand the world around them. The identified Prerequisite for this course is Geometry: Concepts & Connections.

**COURSE STRUCTURE**

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| **CURRICULUM OVERVIEW – MODULES OF STUDY** | |
| SEM 1 | SEM 2 |
| **UNIT 0:** Growth Mindset in Mathematics/Introduction to the Course | **UNIT 4:** Modeling Polynomial Functions |
| **Unit 1:** Descriptive and Inferential Statistics | **UNIT 5:** Investigating Linear Algebra and Matrices |
| **Unit 2:** Exponential and Logarithmic Functions | **UNIT 6:** Trigonometry and Unit Circle |
| **Unit 3:** Investigating Radical Functions | **UNIT 7:** Exploring Rational Functions |
|  | **UNIT 8:** Culminating Capstone Unit |

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| **GRADING CATEGORIES** | **PERCENT** |
| **Class Discussions, Assignments, Projects**  (online submission, graded) | **60%** |
| **Post Assessment/Unit Tests/ Projects**  (online submission, graded) | **40%** |
| **Total:** | **100 %** |
| **FINAL EXAM : 10% of FINAL GRADE PER SEMESTER** |  |
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| **GRADE PROTOCOL** |
| **A 90 – 100**  **B 80 – 89**  **C 75 – 79**  **D 70 -74**  **F Below 70** |
| ***GRADING ANALYSIS*** |
| ***Distinguished Learner* 92%-100%**  ***Proficient Learner*  80%-91%**  ***Developing Learner* 68%-79%**  ***Beginning Learner* 0%-67%** |

**Assignments and Absences**

**Face to face**- 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. No work will be accepted after five days. If a student is absent, he/she is responsible for getting their own make up work. All work should be submitted in Canvas.

**Online-** Since work online will have a specified due date, assignments are due on that assigned due date. Late work will be penalized 1% per each late day.

**Covid/Quarantine-**If Face to Face students are moved to virtual or quarantined due to exposure, students are still required to complete the work given on Canvas by specified due date. If any student falls ill, virtual or Face to Face, please contact your teacher immediately so that a plan can be put in place and you will not be penalized.

**Canvas work for all-** Students will have 5 days to resubmit an assignment on Canvas that is not a quiz or assessment if their score is not sufficient or stated by the teacher in the Comments section.

**Expectations**

1. Respect yourself, peers and all adults.
2. High expectations ALL DAY, EVERY DAY!
3. Be prepared for class daily.
4. Every student is responsible for helping to maintain a clean, safe learning environment and to participate in daily math lessons.
5. Adhere to all policies, rules, and regulations outlined in the student handbook.
6. Use computer etiquette.

**Classroom Procedures & Expectations (Face to Face)**

1. Walk into the classroom quietly and take your seat.
2. If you are tardy, you must have a pass from the office.
3. If need be, sharpen your pencil or visit the wastebasket before class begins. This must be done within the first three minutes of coming to class.
4. As soon as you are seated, get out all materials needed for class.
5. During assessments you are to raise your hand if you have a question and I will come to you. Always bring a book to read after you finish your test because not everyone will finish the test at the same time.
6. During class work, raise your hand and I will come to you and if I am with another student, wait patiently and I will get to your question.
7. If you are absent, it is your responsibility to check with me to see which assignments you missed. **It is your responsibility to complete the assignments within five days.**
8. Do not stand up, pack your book bag, clear off your desk or leave the classroom until instructed to do so.
9. During a fire or tornado drill, remain calm and walk quietly to our designated areas.
10. During any announcements be quiet and listen until they are finished.

**YOU ARE RESPONSIBLE FOR SUBMITTING YOU WORK ON TIME!**

**Assignments**

* 6 Unit Tests
* 2 Projects (35% of grade)
* Homework will be given
* Assortment of quizzes and classwork

**Behavior Interventions**

* 1st time – Verbal warning/Conference with student about the misbehavior and its negative impact on their learning.
* 2nd time – Parental contact to discuss behavior and interventions.
* 3rd time – Conference with student and graduation coach, liaison, or counselor.
* 4th time – Referral to administration

**\*\* Any student who is a major disruption to classroom procedure will be referred immediately to their assistant principal.**

**\*\*\*The classroom is a safe environment where everyone, regardless of background and ideals, is free to empress himself/herself. If you or anyone else feels unsafe in the classroom, please notify your teacher right away so the situation can be remedied**

**Notification of Assignments/Updates**

Please visit the Canvas to see a Weekly module for assignments and Home work for the week.

Only One or Two Grades will be posted in a week.

**TECHNOLOGY IN THE CLASSROOM**

It is the goal of the Mathematics department to have students learn to use and appreciate technology as a mathematical tool. Graphing calculators are powerful mathematical tools.  Through their use students can visualize problems more quickly, discover mathematical properties, and validate their work done with pencil and paper. Graphing calculators are not substitutes for students learning mathematical concepts and processes.  They are to be used to enhance student learning. I have a set of graphing calculators for students to use while in my classroom.  In order to ensure security, students will only be allowed to use one of my calculators on in-class quizzes and tests.

Bring your technology (BYOT) allows students to have opportunities to learn mathematics using technology by bringing personal technology to school to use for instructional purposes only. Technology covers hand-held and other mobile equipment such as tablets, netbooks, notebooks, or other systems that can be used for word processing, Internet access, recording audio or video, and that may serve other purposes as deemed appropriate for a subject area by the teacher. The owner of the personal technology is responsible for the safe-keeping, storage, updating, charging and usage of the device. Laney High School is not liable for theft, loss, or damage. All users must follow the Richmond County Internet Acceptable Use Policy. Devices with other connectivity besides wireless (such as 3G or 4G) may only access the wireless network provided by RCSS.

**Course Materials:**

\* 1 Package of Dividers

\* 1 - Composition Notebook \* Pencils (mechanical pencils preferred)

\* Handheld pencil sharpener \* Highlighters

\* Loose Leaf Paper \* Two pocket plastic folders w/ 3 holes

\* Coloring Utensils (crayons, coloring pencil, or markers)

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| **TECHNOLOGY POLICY** | **CELL PHONES ARE NOT ALLOWED IN MY CLASS. DUE TO THE DISTRICT BEING 1 TO 1**  **Also Smart watches, Headphones, iPod, iPads, Tablets, MP3 Players etc., are not permitted.**  **(WHICH MEANS EVERY STUDENT WILL HAVE A COMPUTER), CELL PHONES ARE HELD IN A SECURE FOR THE ENTIRE CLASS PERIOD.** |

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| **EXTRA HELP** | **Online Resources**   * Gizmos.com * Delta Math * IXL.com * Quizizz.com * Nearpod in Launch pad * My.hrw.com * USA Test Prep – [www.usatestprep.com](http://www.usatestprep.com); * Khan Academy – [www.khanacademy.org](http://www.khanacademy.org)   **TUTORING**  **Tutoring times TBA**  **++Tutoring Schedule will be modified based on meetings (Faculty and Parent).**  ***It is the responsibility of the student to request additional help (I will need to be notified at least twenty- four hours before the student plans to stay)*** |
| **GRADE RECOVERY** | **The Recovery Policy is a provision for improving grades. This policy allows students to recover from a low or failing cumulative grade on ASSESSMENTS ONLY.**  **Grade Recovery: Any student that has a grade below a 70 at the end of each grading period will receive a *Grade Recovery Contract*. Grade forgiveness will be used, whereby the original failing grade is replaced by the Grade Recovery grade for computing grade-point averages.** |

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| **Mode of communication** | **Remind App: Advance Algebra Class**  **Text @ c8dbd2g to the number 81010** |

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**Contact Information**

**Parent Contact Information (please print legibly below):**

***\*Please check the best way(s) to contact you.***

* **E-mail address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Home phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Cell phone #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* **Work phone # and hours \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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

**Signing this acknowledges that I will strive for success.**

**Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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

**Conferences**

**“To schedule a conference with your teachers, please contact the Guidance Office** 706-823-6900