**Gateway STEM High School**

***Learners Today, Leaders Tomorrow!***



**Advanced Algebra 350**

Room 420 North

**Course Syllabus**

**2023-2024**

**INSTRUCTOR:** Mrs. Nolte  **PLANNING PERIOD:** 6th

**E-Mail:** leeann.nolte@slps.org **PHONE:** 314-776-3300

**COURSE FRAMEWORK:**

Advanced Algebra extends student’s understanding of variables, algebraic expressions, equations, functions, inequalities, and their multiple representations. Additionally, students will be introduced to new concepts needed for college algebra topics such as logarithmic and trigonometric functions. Students will further develop their ability to explore and solve real-world application problems, demonstrate the appropriate use of graphing calculators, and communicate mathematical ideas clearly.

**LEARNING OUTCOMES:** By the end of the course, students will:

* Relate arithmetic of rational expressions to arithmetic of rational numbers
* Expand understandings of functions and graphing to include trigonometric functions
* Relate data display and summary statistics to probability and explore a variety of data collections methods

**COURSE OUTLINE:** (Subject to change)

* **First Semester**

Linear Functions and Systems / Quadratic Functions and Equations / Polynomial Functions / Rational Functions / Rational Exponents and Radical Functions / Exponential and Logarithmic Functions

* **Second Semester**

Trigonometric Functions / Trigonometric Equations and Identities / Conic Sections / Matrices / Data Analysis / Probability

**Classroom EXPECTATIONS/POLICIES:**

* ***Be respectful.*** Be on time: when the bell rings and when turning in assignments. Respect the content we are learning, the materials we have in class, and above all, every person that comes and goes in room 420 North. Use thoughtful and academic language. Contribute to discussions in a meaningful manner. Any disrespectful language, discriminatory words, or behavior will **NOT** be tolerated.
* ***Be prepared.*** Bring all materials to class that you will need. Be ready to start when the bell rings. This means being in your seat and working on the day’s ‘Do Now’. Use the restroom during passing time so that you do not lose valuable class time.
* ***Remain on task throughout the entire class time.*** Class time is from bell to bell. Students are expected to begin working when the initial class bell rings and end work when the dismissal bell rings. Please remain seated until the bell rings.
* ***Food and Drinks*** – Food is **NOT** allowed in the classroom. **Water is allowed if** in a bottle with a lid, no other drinks are permitted.

**REQUIRED MATERIALS:**

You will need to bring the following materials to class each day

* 3 ring binder with loose leaf paper OR spiral notebook and folder
* Pencils with eraser - Pen is **NOT** allowed

**ACADEMIC INTEGRITY/ PLAGIARISM:**

* Academic dishonesty includes cheating, falsifying information, copying an assignment,

and getting answers for tests from another student.

* Plagiarism is defined as presenting as one’s own the words, the work, or the opinions of someone

else without proper acknowledgement. Students are expected to complete their own work.

* Plagiarism will result in a zero on the assignment and a referral.
* If you choose to copy an assignment from another student or if you intentionally give another student your work to copy, all students involved will receive a “0” for that assignment and their guardians will be notified. If this happens a second time, we will have a meeting with your vice principal regarding your academic dishonesty.

**MISCELLANEOUS COURSE INFORMATION:**

**Class Organization**

When you enter class, have your homework, pencil and notebook paper ready and start your Do Now. The class objective and agenda will be posted on the board.

**Homework**

Student should expect to receive a homework assignment after **every section of the unit**. In order to be successful in Adv. Algebra, homework needs to be completed 100% of the time with 100% effort. Although you may not be able to complete each homework assignment with 100% accuracy, the expectation is that you make a valid attempt on every problem.

**Mobile Device Policy**

**NO** cell phone use allowed – **no** use and **no** charging!!! Only exception is if authorized by the teacher to enhance the curriculum being taught or at other time(s) when teacher deems allowable.

**Turning in Assignments**

All assignments **must be completed and turned in** by the **next** class period. Late work will be accepted for reduced credit and must be submitted before the unit exam. If you are absent, then it is due on the day you return. Assignments should be clearly labeled with the student’s name (first and last), date, hour, and assignment title.

**Attendance**

Being absent will seriously diminish your ability to learn. If you miss a day of new material, it will be difficult for you to catch up. If you miss a day, the material will be given to you after daily attendance is taken next class period. If you do not understand any of the material that you missed, it is **your** responsibility to get notes/help from a classmate or from me. Please do not ask for this help while I am taking attendance, teaching new material, or in the middle of helping another student. Being absent is **not** a valid excuse for being unprepared for a test or quiz unless it is an extended or excused absence.

**Hall Passes**

Per school policy, hall passes are for emergencies only. Make sure to use the restroom and take care of any other business before coming to class.

**Unit Tests**

Students that miss a test will be allowed to make up the test on the day your return to school. If you do not make up the test you will receive a zero on that unit test.

**Students with Disabilities**

If you require accommodations for access and/or participation please inform the instructor. This includes, but is not limited to, change of seat for vision/hearing reasons, larger type copies of assignments, and excuses for medical reasons.

**GRADING POLICY/SCALE:**

**Assignments Description Value**

Formative [Do Now, Classwork, Assignments, and Quizzes] = 40%

Summative [Unit tests] = 60%

Note: Semester Finals will be 10% of your grade  **TOTAL = 100%**

**Grading Scale** (issued by the district)

|  |  |  |
| --- | --- | --- |
| A | 90 - 100 | The student’s work is exemplary and is completed in a timely and independent manner. The work shows a high level of understanding or performance |
| B | 80 - 89 | The student’s work is above average and has been completed in a timely and independent manner. The work shows a clear level of understanding or performance |
| C | 70 - 79 | The student’s work is satisfactory and may or may not be completed in a timely or independent manner |
| D | 60 -69 | The student’s work barely meets requirements and work is not completed in a timely or independent manner. |
| F | 0 - 59 | The student’s work does not meet the minimum standards of understanding or performance. |

Parents may have internet access to their student’s grades and assignments, upon Administrative approval at <https://sis.slps.org/SLPS/Default.aspx>