



Houston Independent School District
S.P. Waltrip High School
1900 West 34th Street, Houston, Texas 77018-6186
Phone: 713-688-1361 · Fax: 713-957-7743 · Website: www.houstonisd.org/waltrips



Algebra 2 HADV Syllabus 2021-2022

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Tutorials are available: Tuesday - Wednesday 4:10 – 5:10 pm.

WELCOME to Algebra 2 HADV:

The Algebra 2 HADV class will allow students to explore mathematics and further develop their skills in Algebra. Students will use previously acquired algebraic and geometric skills and review material as needed in this course to solve systems of equations and inequalities. The skillset and problem-solving strategies will also be an important tool for learning about Matrices, Quadratic, Exponential, Logarithmic, Polynomial, Rational, Radical and Trigonometric functions. Individual and group engagement in mathematical discussion and investigation is expected/required. Students will complete several Model Instructional Units from the HUB and the Pearson text book materials. Some materials from “Khan Academy” and or “ImagineMath” will be used to enhance instruction, bridge any gaps as appropriate and help strengthen students’ problem solving, critical thinking, and reasoning skills that will make for present success in high school as well as future success in College/Life.

Algebra 2 HADV Topics:

Unit 1: Develop a Family of Functions and Data Regression

Unit 2: Analyze Transformations of Functions using multiple representations

Unit 3: Connect the relationships between composition and inverse of function

Unit 4: Analyze and solve Systems of Equations and Inequalities with multiple representations

Unit 5: Explore various methods to factor and solve Quadratic Functions including Complex Numbers.

Unit 6: Analyze and solve Square Root Functions and Cube Root Functions

Unit 7: Analyze the attributes of Polynomial Functions

Unit 8: Analyze Inverse variations & Transformations of Rational Functions

Unit 9: Analyze transformations and inverses into Exponential and Logarithmic Functions

Unit 10: Solve Applications of Exponential Functions

Unit 11: Graph, translate and classify Conic Sections

Unit 12: Develop the relationship between the unit circle and the definition of the periodic function



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Six Weeks Grading Policy:

- 50%** Classwork/Homework/Minor Projects
- 30%** Major Grades (Tests, Quizzes, Major Projects, etc.)
- 20%** Daily Grades/participation

Re-Test Policy:

1. Parent and student signatures (manual or electronic) are required on original test.
2. **One (1)** Tutorial session is required prior to re-test.
3. Re-test must occur **within ONE week** of the return of the original test.
4. Maximum score on re-test: 70

Homework:

Expect to have at Least 10 homework assignments per cycle. Attempt ALL assignments and put forth your best student scholar effort. SHOW work as appropriate and when applicable – “*No work, no credit*” (NWNC). Attempting all in-class and homework problems have a positive correlation with higher quiz and test grades. *Any work not turned in will result in a zero and will have a detrimental impact to students’ grade.*

Absences:

If you are absent, **it is your responsibility** to discuss make-up with your teacher.

1. If you are absent the day an assignment is **due**, it must be turned in the first day you return.
2. If you are absent the day an assignment is **assigned**, it will be due the following day you return to class after the assignment is received.

Class Materials:

Each student must bring a **fully charged laptop** to the class every day. Each student must maintain a **Math only** notebook for study and documentation. An Electronic notebook is strongly encouraged but a hardcopy is ok. Notes will be checked periodically. The supplies needed for class are listed below and each student is expected to have them by Tuesday, August 31, 2021.

- | | |
|----------------------|--------------------------------------|
| 1. Laptop | 4. Colored Pens/Markers/ Highlighter |
| 2. Loose-leaf paper; | 5. Notebook |
| 3. #2 pencils | 6. 1” - 2”, three-ring binder |



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Note: If you know that you will have difficulty acquiring these materials by the due date, please notify me IMMEDIATELY. Do not wait until the due date. We will come up with a solution in order for you to obtain the required supplies in a reasonable amount of time.

Classroom Projects:

A major project and some minor projects may be assigned each semester. Projects may be individual or group assignments depending on the content/subject matter and suitability. Students will be awarded a Major grade for the projects

Calculator:

TI-84 Plus calculators will be used and a classroom set will be provided. Students are also encouraged to download the TI-84 calculator app on their laptops. Other HISD approved online calculators such as “Desmos” may also be used.

Classroom Norms:

- ✓ Respect everyone, including yourself.
- ✓ Be on time – Tardies are **NOT** acceptable
- ✓ Be well prepared – Bring **adequately charged Laptop and all class materials daily**
- ✓ Follow oral and written directions
- ✓ Put forth your **best EFFORT** always. Be on task
- ✓ All cellphones must be powered off prior to entering the classroom. Cellphones may be used at specific times for class assignments when indicated. Non-compliance with the cellphone rules will result in their temporary confiscation and a parent conference may be required.



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Algebra 2 HADV Course Student and Parent Signature Form

I have read and discussed the **Algebra 2 2021-2022** Syllabus and accept responsibility for meeting these expectations in class. Please complete all lines of this form.

Student Name (print)

Date

Student Signature

Date

Parent/Guardian Signature

Date

Parent/Guardian daytime phone _____ (work) _____
(cell)

Relation to student: _____

Parent/Guardian's e-mail address: _____

Parents/ Guardians: Please complete all lines of the information above and have your son/daughter promptly return this page only by Wednesday, September 1, 2021.