

James Madison High School  
13719 White Heather  
Houston, TX 77045-4421  
<https://www.houstonisd.org/domain/22480>



## Algebra II Course Syllabus 2020-2021

**Instructor:** Mr. Hunter  
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Tutorials: 3:15 – 4:10 Monday - Friday

Conference: 2<sup>nd</sup> Period

### Letter of Introduction

Dear Parents and Students,

I hope you and your loved ones are well while reading this. I am excited about the amazing and probably historical things you will accomplish this year. Education is your right and I am there with you getting my own daughters through school. Like a parent, my end goal is to help give you a better life with the critical thinking skills and mental toughness you will gain from successfully completing Algebra 2.

I have taught Algebra 2 and Pre-Calculus in HISD for seven years and the goal of this class is to prepare you for college. Before teaching, I graduated from UTSA with a degree in engineering and spent years working for the Department of Defense. I understand many of you are going through real-life circumstances in these unusual times even though you are young. I will not pretend we are not in a global pandemic, but your education matters now because you matter as a person. Every assignment given and policy enforced will only occur in class if it moves us forward to improving your education. The theme at Madison is Excellence and Efficiency. My faith tells me everyone is born a person that is capable of good deeds with some investment from people that care. I'm excited about meeting you soon. Please stay safe and healthy.

Genuinely,

Mr. Hunter

### Course Overview

Algebra II promotes the understanding of both linear and non-linear functional concepts, as well as the relationship between text, equations, graphs and tables through mathematical modeling of realistic situations. Students are motivated to discuss mathematical functions and strengthen their conceptual foundations and understand mathematical relevance in everyday life. The class will include a review of

the concepts learned in Algebra I, Geometry, and the SAT. Students who master Algebra II will gain experience with algebraic solutions of problems in various content areas, including the quadratic, absolute value, square root, cubic, logarithmic and exponential functions, as well as an understanding of complex numbers.

### **Classroom Expectations**

- ❖ Arrive promptly and prepared
- ❖ Actively participate
- ❖ Be respectful
- ❖ Follow HISD and Madison HS rules and policies
- ❖ Complete all assignments on time

### **Required Texts/Materials**

- ❖ School Laptop
- ❖ Composition notebook or Teams notebook, Pencil or Pen
- ❖ Desmos graphing calculator ( <https://www.desmos.com/calculator>) or TI 84 Wabbit emulator

### **Course Outline**

1. Parent Functions and Data Regression
2. Transformation of Functions
3. Composition and Inverse Functions
4. Absolute Value Functions
5. Matrices & Systems of Equations and Inequalities
6. Transformations and Attributes of Quadratic Functions
7. Factoring and Complex Numbers
8. Solving Quadratic Equations and Inequalities
9. Applications of Quadratic Equations and Inequalities
10. Systems of Linear and Quadratic Equations
11. Radical and Rational Exponents
12. Root Equations and Functions
13. Solving Root Equations
14. Polynomial Functions
15. Inverse Variations and Transformations of Rational Functions
16. Rational Equations and Functions
17. Exponential and Logarithmic Functions
18. Bridge to Precalculus Trigonometry

### **Grading**

Grading policy for remote instruction is that all grades are weighted equally.

This means all grades = 100% during remote instruction.

When you return face to face, the policy is:

Daily grades/Classwork 80%

Tests/Projects/Labs 20%

A	B	C	D	F
90 or above	80 to 89	75 to 79	70 to 74	69 or below

## **Late Work Policy**

Late work will not be accepted a week after the day it is due. There will be a 10-point penalty for each day it is late. This rule applies to projects that count as major grades. If for some reason there is an emergency that will prevent you from turning in an assignment on time you must let me know beforehand otherwise it will be counted late.

## **Make Up-Test Policy**

You have the option to re-take any quiz/test within 7 days of the grade being posted on-line. Retakes may only be done before or after school. **Please do not ask me about a re-take during class.**

## **COURSE GUIDELINES CONTRACT Algebra 2**

### **Parents:**

You play a crucial role in your child's education. I ask you to participate in your child's learning by monitoring homework/projects, checking grades (instructions can be found at [www.houstonisd.org/parentcourse](http://www.houstonisd.org/parentcourse) ), and encouraging your child to attend tutorials. The easiest way to communicate with me is by e-mail: [rhunter1@houstonisd.org](mailto:rhunter1@houstonisd.org)

## **CONTRACT**

Dear Parent of: \_\_\_\_\_

As you know, school will begin on September 8, 2020. The Houston Independent School District is offering students an opportunity to participate in remote learning for the Fall 2020 semester. This will look very different from traditional learning in the classroom. Learning will take place on a virtual online platform. Therefore, specific expectations are required from the parent and the student.

As students participate in remote learning, parents and students must adhere to the policies and requirements set by the district and the school. Students must and will comply to the following expectations established by Madison High School by reading and signing this contract:

### **STUDENT EXPECTATIONS**

- ❖ Participate in remote learning daily from 8:25 a.m. – 4:10 p.m. for each class period virtually held
- ❖ Complete and turn in all required assignments when due
- ❖ Participate in each online course daily and attend any required interventions when needed or assigned by a teacher
- ❖ Attend mandatory meetings via TEAMS or on campus. Ex: laptop pickup/drop-off; pickup class schedules, orientation, etc.
- ❖ Adhere to HISD Student Code of Conduct and Acceptable Use Policy for Electronic Services for Students
- ❖ Ask for help from the teacher, counselor, or administration when needed

### **PARENT/GUARDIAN EXPECTATIONS**

- ❖ Support my child(ren) in participating in remote learning for each grading cycle
- ❖ Ensure my child(ren) log in daily for each class and complete all required assignments
- ❖ Ensure my child(ren) have the necessary resources to participate in remote learning such as: working computer/laptop, power cord, internet, and/or a hotspot
- ❖ Communicate with teachers weekly, monitor grades.
- ❖ A meeting will be called if a student has more than 2 excused or unexcused with the teacher, parent, student, and administrator
- ❖ Encourage students to seek help when needed
- ❖ Make sure all assignments are completed and turned in no later than 11:59 p.m. each day

The school will provide support for students and parents during the remote learning semester. Each teacher will provide assigned academic coursework daily. Teachers, administration, and counselors will be available to discuss any concerns you may have with assisting your child during this time.

### **ACKNOWLEDGEMENT AND UNDERSTANDING**

Students and parents fully understand that academic success is dependent on the student's internal motivation and effort put forth in the class. Students who are not successful will be required to make up the credits. Please sign below that you have read and understand the policies and expectation and agree to this contract.

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Student Signature    Phone Number

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Date

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Parent Signature    Phone Number

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Date