

ALGEBRA II HONORS 2022-2023 SYLLABUS

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MIAMI, FLORIDA

PURSUE EXCELLENCE. WORK HARD. ACHIEVE YOUR BEST.

COURSE DESCRIPTION:

Building on their work with linear, quadratic, and exponential functions, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions, and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. The Standards for Mathematical Practice apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The critical areas for this course, organized into five units, are as follows: **Unit 1- Applications of Probability and Statistics; Unit 2- Inferences and Conclusions from Data; Unit 3- Polynomial, Rational, and Radical Relationships; Unit 4- Modeling with Functions; and Unit 5- Trigonometric Functions.**

CLASSROOM EXPECTATIONS:

- **Always bring your textbook/workbook to class.**
- Phones must be silenced and put away in your book bags during class. **NO TEXTING.**
- Contribute respectfully to the work happening in the room. Encourage others.
- Pay attention in class. Take notes as needed and concentrate during lectures and explanations.
- Do not talk or cause any disruption that detracts others from learning.
- Laptops to be use during lab time and depending on assignments.
- Use class time wisely. Stay on task, whether in group work or individual work.
- Be responsible for your own learning. You will have homework each night. Always ask questions and get help on material you do not understand.
- Please make sure you always stay with the schedule. It is really difficult to catch up once you are behind.
- **PUT FORTH SOLID EFFORT AND BE PROUD OF YOUR WORK AS IT IS AN EXTENSION OF YOURSELF.**

ATTENDANCE:

Mathematics is a comprehensive subject in which daily participation is a requirement. Every student is expected to attend and participate in all class discussions. The District will automatically assign NC (no credit) to any student who accumulates ten (10) or more unexcused absences during the year. Please follow these guidelines:

- Students who are absent are responsible to get notes from another student.
- Homework may only be made up for credit if a student has an excused absence.
- A student may make up a test or quiz (for excused absences only)

COURSE MATERIALS:

The following materials must be brought to school **every day**.

Supplies:

- Two 3-ring binders (2" minimum with dividers)
- College ruled paper.
- Graph paper
- Scientific Calculator.
- Pencils, erasers, rulers (straight edge), and highlighter.

Textbook:

Houghton Mifflin Harcourt
Online textbook

TUTORING:

If you have ANY problems understanding the material covered in class, please see me immediately to arrange for extra help after school.

ASSIGNMENTS:

- Students will be expected to check and record the correct assignment daily (posted on my website and on the classroom Assignment Board) and begin working on it as directed in class. Any unfinished portion will be considered homework.
- Assignments will be checked daily. All work assigned must be attempted to get full credit for the day. All work necessary to get the answer must be shown, neatly, step by step, in pencil. Appropriate diagrams must be drawn. Please do NOT tell me that “you did it on another paper”!!!
- If you are absent, please get the assignment via my website. The assignment MUST be done for the next class. For example, if you miss a Monday class, you must have the assignment ready BEFORE we meet on Wednesday. Late Assignments will NOT be accepted.
- Students will be given assignments relevant to the topics covered in class; therefore, there should not be difficulties in completing them. However, I am available after school (prior appointment) for additional intervention. Furthermore, there is significant help online for completing assignments. Watch the tutorial videos on Khan Academy or “Google” any topic, to find numerous web sites to assist you (including your textbook).

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GRADING POLICY:

Grade Breakdown		
Chapter Tests:	3 grades	
Tests /Projects/Extra Credit.	2 grades	
Quizzes and Composition Book	1 grade	
Home work (5 Assignments)	1 grade	
MDCPS Grading Scale:		
A 90 – 100 %	B 80 – 89 %	C 70 – 79 %
D 60 – 69 %	F 0 – 59 %	

- Students and parents should monitor grades online frequently.

EXTRA CREDIT:

Extra credit can be earned as follows:

- Extra credit problems will be available on selected tests and quizzes. Extra credit points will be added to the test score. There is no penalty for answering extra credit problems incorrectly.
- Outstanding projects.

Students and parent/guardian cooperation is needed to make this a successful and enjoyable year. If you have any questions or comments, please contact me at: manglin@dadeschools.net

I look forward to working with all of you!

HOPE YOU HAVE A GREAT YEAR!! 😊

