

Algebra II Online

Semester: Fall 2020

Kent Island High School

Teacher: Mr. Osuna

Prerequisites: CC Algebra I

Department: Mathematics

Credits: 1

COURSE DESCRIPTION:

This course extends the study of topics introduced in Common Core Algebra 1. Common Core Algebra II emphasizes quadratic, polynomial, rational, exponential and logarithmic functions and their applications in data investigations. Topics related to trigonometry, sequences and series, probability and statistics are also included.

COURSE OUTCOMES:

In addition to studying the topics mentioned above, students will be expected to demonstrate mathematical habits related to the following eight mathematical practices:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning

<http://www.corestandards.org/Math/Practice/>

Course Outline:

| Topics/Unit of Study | Time Frame | Assessment(s) |
|--------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Discrete and Inverse Relationships and Transformation of Functions | 2 - 3 weeks | All units of study will be assessed using a variety of assessments including quizzes, homework, group work, class work, projects, and exams. |
| Polynomial Functions | 2 - 3 weeks | |
| Rational Functions | 2 weeks | |
| Square Root and Quadratic Relationships | 2 - 3 weeks | |
| Exponential and Logarithmic Functions | 2 weeks | |
| Systems of Equations | 1 week | |
| Trigonometry | 2 - 3 weeks | |
| Probability and Statistics | 2 - 3 weeks | |
| Modeling | 1 week | |

Time Frames are subject to change as needed.

Explanation of Assessments:

Students will be graded using a variety of assessments. These assessments may include but are not limited to progress and mastery assessments. Mastery assessments may include major projects, research papers, and unit tests. Progress assessments may include class work, daily or weekly assignments, quizzes, writing assignments, smaller projects, and exit slips. The mid-course assessment will count as a formative grade.

-Tests will be **announced** -Quizzes may be **unannounced**

Textbook:

Agile Mind Platform (Provided)

Materials:

1. Laptops
2. Pencils and erasers
3. Calculator from the TI-83 Plus/TI-84 Plus families
4. Three ring binder with loose-leaf paper, sections and tabs

Classroom Requirements/Procedures:

Students are expected to abide by the school rules. Disciplinary action will result if a school rule is broken. Disciplinary action might include, but is not limited to, teacher student conference, home contact, detention, or office referral.

1. Respect the space, property, and ideas of others
2. Use appropriate and positive language
3. Log onto class on time with all necessary materials
4. Maintain a positive attitude about learning
5. Demonstrate cooperative and appropriate behavior

Assignment Policy:

- A. Assigned on a regular basis.
- B. Reinforces concepts studied in class.
- C. Work must be **turned in within 3 days of the due date** (unless circumstances for an extension have been approved by the teacher and/or administration) **without penalty.**
 - Work turned in after the third day and by the teacher's established deadline may be subjected to a lower grade due to lateness, **not to exceed 10 percent per day.**
- D. Papers must **show all work and be neat & readable.**

Grading Policy:

Cumulative Grade:

- | | |
|------------------------------------------------|-----|
| 1. Progress Assessments (Homework and Quizzes) | 50% |
| 2. Mastery Assessments | 50% |

The letter grade shall be determined by the following percentage scale:

| | | |
|----------|---|---|
| 90 - 100 | = | A |
| 80 - 89 | = | B |
| 70 - 79 | = | C |
| 60 - 69 | = | D |
| Below 60 | = | E |

Availability:

I will be available for additional help during office hours.

Contact Information:

Voicemail: 410-604-2070
E-mail: michael.osuna@qacps.org

Algebra II (CC):

Mr. Osuna

By signing this paper I agree that I have read and understand the policies set forth in the Fall 2020 Algebra II (CC) Syllabus.

Student Name: _____ (please print)

Student Signature: _____ Date: _____

Parent/Guardian Name: _____ (please print)

Parent/Guardian Signature: _____ Date: _____

E-mail Address: _____

Phone Numbers: _____ (H) _____ (W)

_____ (Cell)