

# Algebra 2 Pre-AP Syllabus

## Mr. Riley

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Room 156; 512.732.9280 x33418

Conference: 2<sup>nd</sup> Period (9:46-10:39)

Tutoring: 8:15 am - 8:45 am; after school by appointment

**Textbook:** *Algebra 2* by Carter, Cuevas, Day & Malloy (McGraw Hill Education)

**Textbook Website:** [connected.mcgraw-hill.com](http://connected.mcgraw-hill.com)

McGraw Hill maintains a website that includes extra examples, interactive quizzes and video tutorials that are written for every section of the textbook. Student login information will be shared in class.

### **Materials:**

- 3-ring binder or folder with lined paper and graph paper
- One 4-pack of Expo Dry Erase markers
- Notes and Handouts packet will, for the whole year, will be made (optionally!) available from Kinkos. This is a recommendation; all notes and handouts can be accessed online in electronic form for students to print on their own as desired. There may also be special or unplanned handouts during the year that will be supplied as necessary.
- Graphing calculator – TI 83+ or TI 84+ (or equivalent) are allowed on SAT, SAT II and AP Math exams

Note: The calculator's memory will be cleared for all tests and quizzes.

**Grading Policy:** Your quarterly grade will be calculated with the following weights:

- **Daily Grades – 10%** - Daily grades will consist of classwork and unannounced homework checks.
- **Tests – 90%**
  - There will be approximately 15 learning targets assessed each quarter. Each learning target will have its own grade in the grade book.
  - There will usually be one test every week. Each test will typically include up to 5 learning targets. Instead of earning one grade for the whole test, students earn a grade for each learning target.
  - Each learning target will be assessed the week it is taught. It will be assessed again at least one more time a week or two later.
    - If the last grade for a learning target is the highest grade for that learning target, then that will be the test grade for the learning target (replacing any lower grades in the grade book).
    - If the last grade is not the highest grade for that learning target, then the most recent grade will be averaged with the existing grade for that learning target.

Your semester average is the average of the two quarterly grades (40% each) and the final exam (20%).

## **Homework**

Practice and repetition is crucial when learning new mathematics. In this class, homework is the most frequent opportunity for practicing math. Homework assignments will not be collected for a grade; however, because of its importance, unannounced homework checks will hold students accountable for this work. These checks will be 3-5 questions related to, or directly from, the homework assignments completed since the prior homework check.

## **Make-up Policy**

- When you are absent, please take the initiative to look at the online calendar for the day, turn in missed work and make arrangements to make up any tests or quizzes missed. Please follow the absence policy in the student handbook regarding quiz and test make-ups.
- When you know you are going to miss class, if possible, get your assignments before hand so that you can get caught up on the missed materials.
- Remember that tutorial videos are available on the McGraw Hill website.

## **UIL Eligibility**

It is the student's responsibility to be aware of his/her grades and how those grades will affect their eligibility to participate in extracurricular activities. Refer to the Student Handbook for more information on eligibility rules.

## **Classroom Rules**

- Respect others, yourself, and property.
- Be prepared with all materials and seated in your assigned seat when class begins.
- Listen attentively, take notes, and ask questions – *ENGAGE YOUR BRAIN!*
- Follow the Westlake Honor Code. School policy will be enforced.

## **Course Description** Topics studied in Algebra II PreAP include:

- Solving linear and absolute value equations and inequalities
- Graphing linear equations and functions
- Solving systems of equations and inequalities using algebraic and matrix methods
- Graphing quadratic functions; solving quadratic equations and inequalities
- Graphing polynomial functions; solving polynomial equations
- Writing inverse functions; graphing and solving radical equations and inequalities
- Graphing exponential and logarithmic functions; solving exponential and logarithmic equations
- Graphing rational functions; solving rational equations
- Investigating arithmetic and geometric sequences and series