

**Course Name:** Algebra 2

**Duration:**  1 Semester  Full Year

**Grade Level:**  9th  10th  11th  12th (check all that apply)

### Are there any prerequisites for the course?

Completion of Algebra 1 and Geometry or Intermediate Mathematics.

### WHAT this course is about:

This course is an advanced Algebra course. You will explore different function families and build on the skills you learned in Algebra 1 as well as explore new topics to introduce you to content for Precalculus.

### WHY take this course:

Take this course because you are planning to go to a 2-year or 4-year college/university or need a 3<sup>rd</sup> math credit for graduation.

### WHAT you'll learn:

Topics include:

- Foundations for Functions
- Quadratic Functions
- Polynomial Functions
- Rational Functions
- Exponential and Logarithmic Functions
- Radical and Rational Functions
- Trigonometry, Unit Circle, and Periodic Functions
- Statistics

A mix of Carnegie Learning, Mathia, and Khan Academy will be used.

### WHAT you'll do:

You will learn to connect multiple representations of concepts expressed graphically, numerically, analytically, and verbally. The connections between these representations are important.

You will learn to communicate mathematically. Not only to solve a problem but to properly justify your answer.

### WHERE this could take you:

After this course most students take Precalculus, Bridge to College Mathematics or Math 107.

**OPTIONAL Course Outline (“scope and sequence”, sequence chart, etc.)**

Click or tap here to enter text.