

# Algebra 2

Instructor: Todd Sparrow

Tuition: \$240:  $\frac{1}{2}$  due at registration /  $\frac{1}{2}$  due first day of class

Credit: 1 credit

Homework: 4-5 hours per week

## Course Description:

Algebra 2 is a continuation of the algebraic processes the student learned in Algebra 1, intended to help the student enrich their mathematical skills and develop advanced concepts beyond basic algebraic principles. This course is organized around the study of families of functions. Emphasis is placed on linear, quadratic, exponential functions and systems of equations as well as translating these functions between graphs, tables, symbolic representations, and real-life situations. Students will apply these concepts using a variety of technologies and apply this learning to solve real-world mathematical problems. This course prepares students for future math courses and is designed to support students as they investigate these concepts and apply the mathematics that they learn in the classroom to real-world contexts. Students will explore ways to model mathematical situations and communicate mathematically; appropriate technology is integrated into the curriculum.

## Prerequisites:

This course is appropriate for 9<sup>th</sup>-12<sup>th</sup> grade for students having a comprehensive understanding of Algebra 1.

## Textbook & Online Practice:

This class will use the textbook: OpenStax—College Algebra, 2e (Free Download, or Purchase ISBN: 978-1-711494-02-9) and homework and additional resources will be available through the class portal.

<https://wlink.to/ceecalq2>

## Required Materials:

- TI-83/84 Graphing Calculator
- Internet access outside of class to access homework and class portal
- Pencil(s) for class
- Both ruled and graph paper

## Expectations/Homework:

There will be a summer prerequisite review of Algebra 1 that should be completed before the first day of class. This will be emailed or put on the Student Portal. Students can expect daily practice assignments, regular assessments and quizzes, and two end-of-term exams. As with any mathematics course, the student MUST keep up with the assignments to be successful. A student meeting the prerequisite knowledge and skills can estimate 4-5 hours of classwork per week in addition to time spent in class. Those students not meeting the prerequisite requirements should expect to spend additional time outside of class each week.

## Class Portal:

Students will use the class portal during the week to access homework assignments, additional help resources and will be able to view the textbook contents directly. Parents will also be able to access the class portal to monitor progress and grades for their students.

