

Algebra 1

Instructor:

Todd Sparrow

Tuition:

\$220: ½ due at registration / ½ due first day of class

Credit:

1 credit

Homework:

4-5 hours per week

Course Description:

Algebra 1 is intended to formalize and extend the mathematics that students learned in the middle grades. In this course, students will deepen their understanding of linear and exponential relationships by contrasting them with one another. Students will also apply linear models to data that exhibit a linear trend. This course also covers analyzing, solving, and using quadratic functions. 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:

8th-grade math or equivalent/Prealgebra. These courses are appropriate for 8th-10th grade.

Textbook & Online Practice:

This class will use the no-cost OpenStax textbook—Elementary Algebra, 2e (View online, Paperback ISBN: 978-1975076474) and homework and additional resources will be available on the class portal. <https://wlink.to/ceecalg1>

Required Materials:

- Scientific calculator (TI-30XIIS, TI-30XS, or similar non-programmable)
- Internet access outside of class to access the class portal
- Pencil(s) for class
- Both ruled and graph paper

Expectations/Homework:

There will be a summer prerequisite review of Prealgebra 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 tests, 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.

