

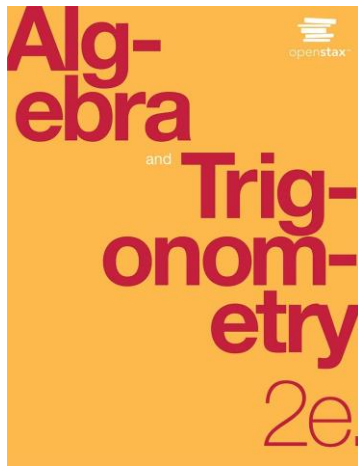
Algebra 2 with Trigonometry

Instructor: Dr. Bob Core

Credit: 1 year of mathematics

Cost per Year: \$250 ($\frac{1}{2}$ due at registration, other $\frac{1}{2}$ due first day of class)

Prerequisites: 1) Algebra 1-it is highly recommended that the students have successfully completed Algebra 1 with an A or B to move forward with Algebra 2.
2) Geometry-it is recommended that the students have completed Geometry with an A or B.
Appropriate for 9-12th grade.



Textbook & Online Practice: This class will use the free [OpenStax](#) textbook-*Algebra and Trigonometry, 2e* (Paperback ISBN: 978-1711494036) and open educational resource, myOpenMath.

Required Materials: Students will need the following materials:

- TI-83/84 graphing calculator
- Internet outside of class to access Canvas and homework
- Pencil(s) for class
- 3-ring binder with ruled paper, graph paper and dividers

Course Description: Algebra 2 is a continuation of the algebraic processes the student learned in Algebra 1, intended to help the students enrich their mathematical skills and develop advanced concepts beyond basic algebraic principles. This course is organized around the study of families of functions. Emphases are placed on linear, quadratic, exponential, and trigonometric functions, as well as translating these functions into 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. Students will explore ways to model mathematical situations and communicate mathematically; appropriate technology is integrated into the curriculum.

Expectations/Homework: Students can expect daily practice assignments, quizzes, 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 class work per week in addition to time spent in class. Grading will be cumulative.