

Algebra 2

Credits: 4 **Type:** Online

Course Description:

Are you searching for an Algebra 2 curriculum that covers the A-Z's of High School Algebra in a highly engaging yet thorough way? And with proven success? Your search is over.

StudyForge proudly presents: Algebra 2.

Algebra 2 continues students' mathematical journey, begun in Algebra 1, of combining the concrete world of numbers into the sometimes abstract world of functions and other topics. The course thoroughly prepares students for the oncoming rigor of Pre-Calculus and beyond, yet does so in a manner that is compelling and rewarding, and fosters an appreciation for the real-life applications of each topic explored, as well as for math itself.

With auditory, visual, and hands-on components throughout, this is truly a course that suits all learning styles. The lessons are engaging, interactive and student-friendly, with interactive videos that allow students to pause and rewind at any point and go at their own speed, as well as fun, interactive applets and dynamic graphs scattered throughout that enhance student understanding.

Each video is accompanied by a student-friendly note package that allows students to take notes to whatever level of detail they like. There are also an abundance of practice questions for students to internalize the material, with full, detailed solutions for each, as well as a comprehensive review assignment and practice test. Furthermore, with randomized question banks, students can redo every quiz and test in the course to help them master the material and perform their very best.

This course is strongly recommended for students who might take Pre-Calculus and eventually Calculus in either high school or college/university.

Core Units:

- Exponents
- Rational Exponents and Complex Numbers
- Factoring
- Quadratic Functions
- Polynomial and Rational Functions
- Exploring Functions
- Solving Equations and Inequalities



Elective Units:

- Matrices
- Sequences and Series
- Exponential and Logarithmic Functions
- Trigonometric Functions
- Statistics
- Probability

Assessments:

- Unit Note Package
- Lesson Practice Questions
- Quizzes (Mid-Unit and End of Unit)
- Unit Review Assignment
- Unit Practice Test
- Unit Test
- Projects

Assessments:

- Graphing Calculator for assessments (handheld or online)
 - Note: Every practice question has a built-in Desmos graphing calculator

