



EduCalc Learning Algebra 1

Instructor

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Course Description

Students in this course build on mathematical concepts to learn algebra skills. They learn to solve, graph, and interpret equations, polynomials, inequalities, proportions, and graphing.

Fully Online Course

This is an online course through the learning management system, Canvas. Activities consist of reading text, watching instructional videos, and taking online quizzes and tests. This is a one-credit course upon completion of all 8 units.

Scope and Sequence

Unit	Title	Topics Include
Unit 1	Operations Review	Operations review, integers, properties, classify numbers, absolute value.
Unit 2	Expressions & Equations	Expressions, one-step, two-step, and multi-step equations, inequalities.
Unit 3	Graphs	Types of graphs, slope, functions, literal equations.
Unit 4	Systems of Equations	Graph and solve systems of equations.
Unit 5	Exponents & Roots	Exponents, roots, exponential growth and decay, simple and compound interest.
Unit 6	Polynomials	Add, subtract, multiply, and divide polynomials, FOIL, factor polynomials.
Unit 7	Quadratics	Key features of quadratics, graph quadratics, Quadratic Formula.
Unit 8	Statistics	Measures of central tendencies, probability, scatter plots.

Grading Policy

Quizzes and tests are percentage based (number correct divided by total questions). Assignments are automatically set for two tries if a student wants to improve their grade.