



Online Courses for High School Students
1-888-972-6237

Algebra 1 Credit Recovery

Credit Recovery - Make Up Courses

A diagnostic driven credit recovery course is designed to give an expanded opportunity for students who did not succeed the first time in the course. Students are given the opportunity in each learning unit to demonstrate their knowledge in that area of study. If they demonstrate competency in their unit assessment they will be presented with the following unit. If they do not demonstrate competency then they are required to do the entire unit.

Requirement: For a student to take a credit recovery course, they must have already taken the class unsuccessfully and have the appropriate seat time.

REQUIRED TEXT: No required text for this course.

COURSE DESCRIPTION:

The purpose of this course is to allow the student to gain mastery in working with and evaluating mathematical expressions, equations, graphs, and other topics, with an emphasis on real-world applications throughout this year-long algebra course. The first semester of the course includes an introduction to real numbers and variable expressions, methods for solving equations, understanding functions and relations, and an in-depth study of linear and quadratic functions. The second semester of the course provides students with extensive instruction in topics including systems of equations and inequalities, exponential and radical functions, rational expressions and equations, as well as probability and statistics. Throughout the course are self-check quizzes, audio tutorials, interactive manipulatives, practice games, and plenty of review activities.

COURSE OUTLINE:

Numbers and Expressions

- Lesson 1 – Real Numbers
- Lesson 2 – Rational Numbers
- Lesson 3 – Fractions, Decimals, and Percents
- Lesson 4 – The Number Line

- Lesson 5 – Exponents
- Lesson 6 – Roots
- Lesson 7 – Order of Operations
- Lesson 8 – Number Properties
- Lesson 9 – Commutative and Associative Properties
- Lesson 10 – Distributive Property

Solving Equations

- Lesson 1 – Algebraic Expressions
- Lesson 2 – Verbal Statements
- Lesson 3 – One-Step Equations
- Lesson 4 – Multi-Step Equations
- Lesson 5 – Absolute Value
- Lesson 6 – Absolute Value Equations
- Lesson 7 – Complex Multi-Step Equations

Functions and Relations

- Lesson 1 – Coordinate Plane
- Lesson 2 – Relations and Functions
- Lesson 3 – Function Notation and Rules
- Lesson 4 – Evaluating Functions
- Lesson 5 – Domain and Range
- Lesson 6 – Graph of a Function
- Lesson 7 – Function Operations
- Lesson 8 – Inverse Functions

Linear Equations

- Lesson 1 – Slope
- Lesson 2 – Rate of Change
- Lesson 3 – Direct Variation
- Lesson 4 – Linear Functions
- Lesson 5 – Converting Between Forms
- Lesson 6 – Writing the Equation of a Line
- Lesson 7 – Graphing Linear Functions
- Lesson 8 – Line of Best Fit
- Lesson 9 – Vertical and Horizontal Lines
- Lesson 10 – Parallel and Perpendicular Lines

Polynomials and Quadratics

- Lesson 1 – Adding and Subtracting Polynomials
- Lesson 2 – Multiplying Polynomials
- Lesson 3 – GCF of Polynomials
- Lesson 4 – Guess and Check Factoring
- Lesson 5 – Factoring Special Cases
- Lesson 6 – Solving Quadratic Equations
- Lesson 7 – Completing the Square
- Lesson 8 – Quadratic Formula
- Lesson 9 – Quadratic Graphs
- Lesson 10 – Maximum and Minimum

Inequalities and Systems

- Lesson 1 – One-Step Inequalities
- Lesson 2 – Multi-Step Inequalities
- Lesson 3 – Compound Inequalities
- Lesson 4 – Absolute Value Inequalities
- Lesson 5 – Graphing Linear Inequalities
- Lesson 6 – Solving Systems by Graphing
- Lesson 7 – Solving Systems by Substitution
- Lesson 8 – Solving Systems by Elimination
- Lesson 9 – Systems of Linear Inequalities
- Lesson 10 – Linear Programming

Exponential and Radical Functions

- Lesson 1 – Properties of Exponents
- Lesson 2 – Scientific Notation
- Lesson 3 – Exponential Functions
- Lesson 4 – Solving Exponential Functions
- Lesson 5 – Exponential Growth and Decay
- Lesson 6 – Simplifying Radical Expressions
- Lesson 7 – Rational Exponents
- Lesson 8 – Distance and Midpoint
- Lesson 9 – Pythagorean Theorem
- Lesson 10 – Radical Equations
- Lesson 11 – Square Root Function

Rational Expressions and Equations

- Lesson 1 – Simplifying Rational Expressions

- Lesson 2 – Multiplying and Dividing Rational Expressions
- Lesson 3 – Adding and Subtracting Rational Expressions
- Lesson 4 – Solving Rational Equations
- Lesson 5 – Characteristics of Rational Functions
- Lesson 6 – Graphing a Rational Function

Probability, Statistics, and Discrete Math

- Lesson 1 – Probability
- Lesson 2 – Counting and Permutations
- Lesson 3 – Measures of Central Tendency
- Lesson 4 – Histograms
- Lesson 5 – Box Plots
- Lesson 6 – Matrices
- Lesson 7 – Rates and Ratios
- Lesson 8 – Unit Conversions
- Lesson 9 – Sequences

Review

- Review 1 – Numbers and Expressions
- Review 2 – Solving Equations
- Review 3 – Function and Relations
- Review 4 – Linear Functions
- Review 5 – Polynomials and Quadratics
- Review 6 – Inequalities and Systems
- Review 7 – Exponential and Radical Functions
- Review 8 – Rational Expressions and Equations
- Review 9 – Probability, Statistics, and Discrete Math