

ALGEBRA II SCOPE AND SEQUENCE

Semester 1

Unit 1: Expressions, Equations, and Inequalities (September)

(Algebraic Expressions, Solving Equations, Solving Inequalities, Absolute Value Equations)

Unit 2: Functions, Equations, and Graphs (September-October)

(Relations, Linear Functions, Absolute Value Functions, Two-Variable Inequalities)

Unit 3: Linear Systems (October)

(Solve by Graphing, Substitution, Elimination, Systems of Inequalities)

Unit 4: Quadratic Functions & Equations (November)

(Graphing, Factoring, Solving Quadratic Equations, The Quadratic Formula)

Unit 5: Polynomials (December-January)

(Polynomial operations, Variable Expressions)

Semester 2

ACT Preparation (January-February)

(Test-Taking Strategy, Practice Tests, Review of Applicable Math Concepts)

Unit 6: Rational Functions & Radical Exponents (March)

(Roots, Radical Expressions, Exponents, Solving Equations, Inverses)

Unit 7: Rational Functions (April)

(Inverse Variation, Rational Expressions, Solving Rational Equations)

Unit 8: Sequences & Series (May)

(Patterns, Arithmetic/Geometric Sequences, Arithmetic/Geometric Series)

Unit 9: Probability (May)

(Permutations, Combinations, Probability of Multiple Events, Conditional Probability)