

# Accelerated Algebra 2

Ernest Righetti High School (053303)

Submitted: May 7, 2021

Decision: May 28, 2021

## Submission Feedback

**APPROVED**

## Basic Course Information

### School(s) Offering This Course:

School Name	Course Learning Environment	Transcript Code(s)	
		Abbreviation	Course Code
Ernest Righetti High School (053303)	Classroom Based	Acc Algebra 2	

<b>Title:</b>	Accelerated Algebra 2
<b>Length of course:</b>	Full Year
<b>Subject area:</b>	Mathematics (C) / Algebra II / Trigonometry
<b>UC honors designation?</b>	No
<b>Prerequisites:</b>	None
<b>Co-requisites:</b>	None
<b>Integrated (Academics / CTE)?</b>	No
<b>Grade levels:</b>	10th, 11th

## course Description

### course overview:

In this accelerated course, students will review and extend concepts taught in Algebra 1 and Geometry and will cover the Common Core Content Standards for both Algebra 2 and Pre-Calculus. Topics covered in this course are expressions, equations, inequalities, functions along with transformation of functions using a parent graph, linear systems, quadratic functions and equations, polynomials and their functions, including the binomial theorem, radical functions and exponents, exponential and logarithmic functions including growth and decay applications, rational functions, sequences and series, quadratic relations, probability and statistics, matrices, periodic functions and trigonometry, trigonometric identities and equations. By providing an extensive coverage of trigonometry, that is traditionally covered in a Pre-Calculus course, including a complete study of conic sections, polar coordinates, vectors, and parametric equations, this course is designed to prepare students to take AP Calculus the next year. It is an expectation that in this course, students demonstrate proficiency in solving higher order thinking problems and fluency in their responses. This course is modeled after a recommendation in the Appendix of the new California State Math Framework: "Create a hybrid Algebra II/Precalculus or Mathematics 3/Precalculus course that allows students to go straight to Calculus in the grade twelve." The course was designed to allow advanced students to progress at a high pace and to enable them to reach Calculus BC in grade twelve. Students who are successful in the course will be prepared for success in AP Calculus AB.

### course content:

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#### Unit 0: Linear Functions and Equations--Prerequisite Material

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In this unit, students will explore expressions, equations and inequalities. Using algebraic expressions, students will represent patterns, and solve equations and inequalities. Students will investigate the properties of real numbers and solve absolute value equations. Throughout this unit, students will choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. Students will interpret parts of an expression such as terms, factors and coefficients and create equations that describe numbers or relationships. Linear functions and Slope-Intercept form will be covered and students will graph linear equations to write equations of line which will then lead to writing equations of lines given its slope and point on the line.

### Unit Assignment(s):

1. Students will complete a summer homework assignment reviewing many topics which are covered in Algebra 1.
2. Upon returning to school, students will review topics in class to ensure mastery.
3. A unit test is given at the end of Week 1 to ensure that the student has mastered the prerequisite skills for the course.

4. Unit exams are given in approximately three-week intervals. All unit exams are cumulative, including content from all previous units. Unit exams include a combination of vocabulary, procedural skills, problem solving skills, and may reference projects completed during the unit. Students will reflect on these exams in order to self assess current content mastery and to set goals for the following units.
5. At the end of each semester, a comprehensive final will be administered, including content from all units taught.

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## Unit 1: Linear Systems

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Students will explore linear systems in this unit. Topics covered in this unit include solving systems using graphs and algebraically, systems of inequalities, linear programming, and systems with three variables. Students will solve systems of linear inequalities, solve problems using linear programming and solve systems in three variables using elimination and substitution. Students will model and analyze real life situations using systems of equations.

### Unit Assignment(s):

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
2. Students will complete nightly homework assignments to practice skills and concepts taught in class. All skills and concepts are related to the topic list above.
3. Daily mini-assessments or exit tickets are meant to quick check student mastery of small pieces of content taught daily.
4. Quizzes are given during the unit and are meant to monitor progress as well as inform students of their mastery level. Quiz content is confined to current unit topics only.
5. Unit exams are given in approximately three-week intervals. All unit exams are cumulative, including content from all previous units. Unit exams include a combination of vocabulary, procedural skills, problem solving skills, and may reference projects completed during the unit. Students will reflect on these exams in order to self assess current content mastery and to set goals for the following units.
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## Unit 2: Polynomials and Polynomial Functions

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Students will investigate polynomials and polynomial functions in this unit. Students begin by identifying and classifying polynomials and demonstrate how polynomials can be combined and multiplied, then move on to dividing polynomials using both long division and synthetic division. Students will demonstrate a variety of factoring skills including by grouping and be able to recognize and apply common patterns to factor not only quadratic but cubic and quartic expressions. By analyzing the factored form of a polynomial, students will then write a polynomial function from its zeros. Using this understanding of polynomials, students will then solve polynomial equations by factoring. Students will explore polynomial models in the real world and learn to fit data to linear, quadratic, cubic or quartic models.

### Unit Assignment(s):

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
  2. Students will complete nightly homework assignments to practice skills and concepts taught in class. All skills and concepts are related to the topic list above.
  3. Daily mini-assessments or exit tickets are meant to quick check student mastery of small pieces of content taught daily.
  4. Quizzes are given during the unit and are meant to monitor progress as well as inform students of their mastery level. Quiz content is confined to current unit topics only.
  5. Unit exams are given in approximately three-week intervals. All unit exams are cumulative, including content from all previous units. Unit exams include a combination of vocabulary, procedural skills, problem solving skills, and may reference projects completed during the unit.
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### Unit 3: Rational Functions

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Students will recognize and use inverse variation and then move on to graph reciprocal functions and translations of reciprocal functions. Through the exploration of rational functions and their graphs, students will identify properties of rational functions, including finding both vertical and horizontal asymptotes and graph them. Students will graph rational functions with more than one vertical asymptote and be able to predict the placement of the graph based on the equation and the asymptotes. Following their investigation of rational functions students will simplify rational expressions and use multiplication, division, addition and subtraction on rational expressions. Finally, students will solve rational expressions and use them to solve problems.

### Unit Assignment(s):

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
  2. Students will complete nightly homework assignments to practice skills and concepts taught in class. All skills and concepts are related to the topic list above.
  3. Daily mini-assessments or exit tickets are meant to quick check student mastery of small pieces of content taught daily.
  4. Quizzes are given during the unit and are meant to monitor progress as well as inform students of their mastery level. Quiz content is confined to current unit topics only.
  5. Unit exams are given in approximately three-week intervals. All unit exams are cumulative, including content from all previous units. Unit exams include a combination of vocabulary, procedural skills, problem solving skills, and may reference projects completed during the unit. Students will reflect on these exams in order to self assess current content mastery and to set goals for the following units.
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## Unit 4: Radical Functions and Rational Exponents

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This unit focuses on radical functions and rational exponents. In this unit, students will learn how to work with radicals, whether they occur by themselves or as parts of functions or equations. Students will learn to find  $n$ th roots. The multiplication and division of radical expressions will then be explored by students. Students will then explore binomial radical expressions and add and subtract radical expressions. Simplifying expressions with rational exponents, and solving square roots and other radical equations will be the next subjects of study in this unit. They will analyze the solutions to determine the viability of the answers. Students will explore the family of square roots graphs and other radical functions and graph their translations. Students will explore the concepts of Domain and Range and how they change based on the translation of the graph. Finally, students look at radical functions and, from the equation, describe the resulting translations using the appropriate terms (reflection, dilation, translation, etc.)

### Unit Assignment(s):

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
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## Unit 5: Quadratic Functions and Equations

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This unit covers quadratic functions and equations. Students will reexplore factoring and find common and binomial factors of quadratic expressions and factor special quadratic expressions. Then students will solve quadratic equations by factoring; this will include factoring quadratic equations that fit the quadratic pattern. Completing the square will be the next subject covered in this unit where students will learn to factor trinomials as the square of a binomial and solve equations and rewrite functions by completing the square. Solving quadratic equations using the quadratic formula and determining the number of solutions by using the discriminant will be the next subject of investigation. Students will identify and graph quadratic equations while learning the key terms associated with it such as parabola, vertex, axis of symmetry and minimum/maximum values. To expand upon this, students will then use translations to graph quadratic functions that are written in standard form, and move on to model data with quadratic functions. They will solve quadratic equations written in general form by first completing the square to put them in standard form and applying the rules of translations to draw the graph, then stating the zeros. Finally, students end this unit by identifying, graphing and performing operations with complex numbers and finding complex number solutions of quadratic equations.

### Unit Assignment(s):

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
  2. Students will complete nightly homework assignments to practice skills and concepts taught in class. All skills and concepts are related to the topic list above.
  3. Daily mini-assessments or exit tickets are meant to quick check student mastery of small pieces of content taught daily.
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### Unit 6: Quadratic Relations and Conic Sections

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This unit focuses on quadratic relations and conic sections. Students will learn how to work with curves that they can trace along the surface of a cone. In their exploration of conic sections, students will learn to graph and identify conic sections. The investigation will move on to parabolas where students will write the equation of a parabola and graph parabolas. Students will then explore circles and write and graph the equation of a circle and then find the center and radius of a circle use them to graph a circle. The next topic of study will be ellipses where students will write the equation, find the foci and graph an ellipse. Students will next graph and find the use of the foci of hyperbolas. Given information about a given conic section (endpoints of the axes, foci, etc), students will write the equation. Students will translate conic sections by writing equations of a translated conic section and identifying a translated conic section from an equation. Given an equation in general form, students will be able to identify the specific conic section and put the equation in standard form. Solving systems of quadratic equalities and inequalities both graphically and algebraically will be the final subject of this unit.

### Unit Assignment(s):

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
2. Students will complete nightly homework assignments to practice skills and concepts taught in class. All skills and concepts are related to the topic list above.
3. Daily mini-assessments or exit tickets are meant to quick check student mastery of small pieces of content taught daily.
4. Quizzes are given during the unit and are meant to monitor progress as well as inform students of their mastery level. Quiz content is confined to current unit topics only.
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## Unit 7: Functions

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In this unit, students will expand upon their knowledge of graphing quadratic, rational, and radical functions and move through graphing absolute values and piecewise functions. They will apply that knowledge to real life situations, modelling them graphically. Students will use their understanding of the distinguishing behaviors of polynomial functions to then graph them and describe the end behavior. Student will then explore theorems about roots of polynomial equations and solve equations using the Rational Root Theorem and the Conjugate Root Theorem, as well as find the equations given some of the roots. The Fundamental Theorem of Algebra will be used to solve polynomial equations with complex solutions. Students will explore polynomial models in the real world and learn to fit data to linear, quadratic, cubic or quartic models.

### Unit Assignment(s):

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
2. Students will complete nightly homework assignments to practice skills and concepts taught in class. All skills and concepts are related to the topic list above.
3. Daily mini-assessments or exit tickets are meant to quick check student mastery of small pieces of content taught daily.
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## Unit 8 Exponential and Logarithmic Functions

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At the beginning of this unit, students will then add, subtract, multiply and divide functions and find the composite of two functions. The topic of study will then move on to finding the inverse of a relation or function. This leads into students investigating exponential and logarithmic functions. Students will learn that logarithms provide a way to work with the inverses of exponential functions. The properties of exponential functions will be investigated and students will graph exponential functions with a base. Students will learn to write and evaluate logarithmic expressions and graph logarithmic functions by using the properties of logarithms. Students will use the properties of logarithms to solve logarithmic equations. Moving on in this unit, students will use the properties of logarithms and natural logarithms to solve exponential equations with different bases, simplifying them to calculator ready form before using a calculator to solve. Students will model exponential growth and decay and apply to real life situations such as compound interest, including continuously, and virus spread, etc. They will use natural logs to solve growth and decay problems.

**Unit Assignment(s):**

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
2. Students will complete nightly homework assignments to practice skills and concepts taught in class. All skills and concepts are related to the topic list above.
3. Daily mini-assessments or exit tickets are meant to quick check student mastery of small pieces of content taught daily.
4. Quizzes are given during the unit and are meant to monitor progress as well as inform students of their mastery level. Quiz content is confined to current unit topics only.
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**Unit 9: Sequences and Series**

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Students will explore arithmetic and geometric sequences and series in this unit. By identifying mathematical patterns found in a sequence, students will use a formula to find the  $n$ th term of a sequence. Moving on, students will define, identify and apply arithmetic sequences and then define, identify and apply geometric sequences. By learning the definition for arithmetic series, students will be able to find their sums. Likewise, students will also define geometric series and find their sums, including infinite geometric series; this will lead to an introduction to the concept of limits. Students will model situations using series and sequences. The unit concludes with students being introduced to the concept of the factorial leading exploring the binomial theorem and expanding binomials using Pascal's Triangle and the Binomial Theorem. Students will also be able to find the  $n$ th term of an expanded binomial.

**Unit Assignment(s):**

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
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3. Daily mini-assessments or exit tickets are meant to quick check student mastery of small pieces of content taught daily.
4. Quizzes are given during the unit and are meant to monitor progress as well as inform students of their mastery level. Quiz content is confined to current unit topics only.
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## Unit 10: Trigonometry and Introduction to Periodic Functions

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Students will explore periodic functions and trigonometry in this unit. Students will investigate right triangles by finding lengths of sides in a right triangle and finding measures of angles in a right triangle and solve real world problems involving right triangles using trigonometric ratios. Then, students will find the area of any triangle and practice using the Law of Sines. Moving on, students will use the Law of Cosines in finding the measures of sides and angles of a triangle and apply both Laws of Sines and Cosines to real life situations. By learning about how geometric measurements relate to trigonometry, students will utilize radian and radian measure, write and graph functions and describe periodic data in this unit. Through their exploration of periodic data, students will identify cycles and periods of periodic functions and find the amplitude of periodic functions. Students will then learn how the unit circle enables the extension of trigonometric functions to all real numbers, interpret as radian measures of angles traversed counterclockwise around the unit circle. As a result students will work with angles in standard position and find coordinates of points on the unit circle. Students will use radian measure for angles. Finally, the unit will cover the evaluation of inverse trigonometric functions.

### Unit Assignment(s):

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
2. Students will complete nightly homework assignments to practice skills and concepts taught in class. All skills and concepts are related to the topic list above.
3. Daily mini-assessments or exit tickets are meant to quick check student mastery of small pieces of content taught daily.
4. Quizzes are given during the unit and are meant to monitor progress as well as inform students of their mastery level. Quiz content is confined to current unit topics only.
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## Unit 11: Trigonometric Identities and Equations

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In this unit, students will learn to graph the six trigonometric functions and to apply the trigonometric identities to prove other identities and to solve trigonometric equations. To begin, students will explore the sine function and identify properties of the sine function and graph sine curves. Subsequently, students will also explore the cosine function and graph and write cosine functions and solve trigonometric equations. Students will also graph the tangent function. In their exploration of translating sine and cosine functions, students will graph translations of trigonometric functions and write equations of translations. Given real life data, students will use trigonometric equations to to create a mathematical model. Lastly, students will evaluate reciprocal trigonometric functions and graph reciprocal trigonometric functions. Moving on in this unit, students will focus on trigonometric identities and equations. Students will discover and verify trigonometric identities, and solve trigonometric equations; students will verify and use sum and difference identities, double angle identities and half angle identities. The final section in this unit synthesizes these skills through the solving of trigonometric equations.

### Unit Assignment(s):

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
  2. Students will complete nightly homework assignments to practice skills and concepts taught in class. All skills and concepts are related to the topic list above.
  3. Daily mini-assessments or exit tickets are meant to quick check student mastery of small pieces of content taught daily.
  4. Quizzes are given during the unit and are meant to monitor progress as well as inform students of their mastery level. Quiz content is confined to current unit topics only.
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### **Unit 12: Polar Coordinates and Vectors**

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This unit covers polar coordinates, vectors and parametric equations. Students will learn to convert from polar to rectangular coordinates and vice versa. They will apply that skill to vector operations in both rectangular and polar form, and will apply vectors to basic physics problems. They will perform vector operations both algebraically and geometrically. Students will learn dot products and identify parallel and perpendicular vectors. Moving through the unit, students will be able to parametrize circle equations as well as express real life situations through the use of parametric equations.

### Unit Assignment(s):

1. 1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
  2. Students will complete nightly homework assignments to practice skills and concepts taught in class. All skills and concepts are related to the topic list above.
  3. Daily mini-assessments or exit tickets are meant to quick check student mastery of small pieces of content taught daily.
  4. Quizzes are given during the unit and are meant to monitor progress as well as inform students of their mastery level. Quiz content is confined to current unit topics only.
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### **Unit 13: Matrices**

This unit focuses on matrices. Students will use a matrix to represent and solve systems of equations and use matrices to make transformations of geometric objects. Initially in this unit, students will learn to practice adding and subtracting matrices and solve matrix equations. They will be introduced to the zero and identity matrices and understand the role they play in addition and multiplication. Students will multiply matrices using scalar and matrix multiplication. Next students will explore determinants and inverses and find the inverse of a matrix while investigating the square matrix, multiplicative identity matrix, multiplicative inverse matrix, determinant and singular matrix. Students will study inverse matrices and systems and solve systems of equations using matrix inverses and multiplication. Moving on in the unit, students will transform geometric figures using matrix operation and understanding image, preimage, dilation, rotation and center of rotation.

### Unit Assignment(s):

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
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## Unit 14: Probability and Statistics

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Students will explore the subject of probability and statistics in this unit. Students will use permutations and combinations to compute probabilities of compound events and solve problems. In their study of probability, students will find the probability of an event using theoretical, experimental and simulation methods. They will then explore the probability of multiple events by applying rules to interpret answers for probabilities of events A and B and the probability of event A or B. Their study will move on to conditional probability where students will use tables and tree diagrams to determine conditional probabilities. Students will use probabilities to make fair decisions and analyze decisions. In their exploration of standard deviation, students will find the standard deviation and variance of set values and apply standard deviation and variance to analyze normal distribution and estimate population percentages. The unit will cover samples and surveys in which students will identify sampling methods and recognize bias in samples and surveys. Finally students will use normal distributions and recognize that there are data sets for which such a procedure is not appropriate.

## Unit Assignment(s):

1. Students will complete daily class work and notes for each new topic. These notes will be assessed using a common rubric.
2. Students will complete nightly homework assignments to practice skills and concepts taught in class. All skills and concepts are related to the topic list above.
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## Course Materials

### Textbooks

Title	Author	Publisher	Edition	Website	Primary
Algebra 2 Common Core	Charles, Randall	Pearson	1st Edition, 2012	[ empty ]	Yes
Advanced Mathematics Precalculus with Discrete Mathematics and Data Analysis	Richard G. Brown	McDougal Little Houghton Mifflin	2003	[ empty ]	No

### Websites

Title	Author(s)/Editor(s)/Compiler(s)	Affiliated Institution or Organization	URL
Desmos Graphing Calculator	Eric Berger et al	Desmos	<a href="https://www.desmos.com">https://www.desmos.com</a>

## Additional Information

**Course Author:**

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