



FACT College Algebra Year at a Glance

Scope and Sequence 2026 - 2027

Please Note: All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended timeline and sequence to be used voluntarily by teachers for planning purposes. Specific question regarding when content will be addressed in a specific course are best answered by the individual teacher.

Course Resources

Publisher Resource:

College Algebra and Trigonometry 7e, Savvas Learning Company LLC

Supplemental Resources:

[Khan Academy](#) (does not support Internet Explorer)

In FACT College Algebra, instructional time will emphasize five areas:

- 1) applying properties of exponents and logarithms using numerical and algebraic expressions;
- 2) extending arithmetic operations with numerical and algebraic expressions to include radical and polynomial expressions;
- 3) solving one-variable linear, absolute value, quadratic, polynomial, exponential, logarithmic, radical and rational equations, and interpreting the viability of solutions in real-world contexts;
- 4) modeling and applying linear, absolute value, quadratic, polynomial, exponential and logarithmic functions to solve mathematical and real-world problems; and
- 5) extending the knowledge of functions through compositions, transformations of parent functions and interpreting key features.



FACT College Algebra Year at a Glance

Quarter 1 (August 10 – October 9)

Unit 0: Review of Basic Concepts

Students will review concepts from Algebra 2, including real number operations, integer and rational exponents, polynomials, and rational and radical expressions. Students will build on these skills throughout the remainder of the course.

Unit 1: Linear Equations and Inequalities

Students will work with linear equations. They will write and solve these equations using real-world scenarios. Students will also write and solve linear inequalities. Emphasis will be on the interpretation of key features of these linear functions.

Unit 2: Functions

Students will review the basics of functions. Then students will graph functions and perform operations on functions, including the composition of functions.

Unit 3: Absolute Value

Students will write, solve, and graph absolute value functions. Problems will represent real world scenarios with an emphasis on interpreting key features in context.

Quarter 2 (October 13 – December 18)

Unit 4: Quadratics

Students will identify a function from a given scenario; they will create quadratic models. Students will be able to write, solve, and graph quadratic models in various forms. They will be able to identify key features of the graphs and provide solutions to equations from a graph. Students will also learn graphing techniques that will stretch/shrink, reflect, and translate graphs.

Unit 5: Polynomial Functions

Students will use identify zeros of polynomial functions using synthetic division, remainder theorem, factor theorem, and rational zeros theorem. Students will use the zeros of the function to graph polynomials and describe key features of the graph (including end behavior, domain, range, behavior of zeros, and intercepts).



FACT College Algebra Year at a Glance

Quarter 3 (January 5 – March 11)

Unit 6: Radicals and Rational Equations

Students will perform operations with radicals. Students will solve and graph rational functions and identify vertical and horizontal asymptotes of these functions.

Unit 7: Inverse, Exponential, and Logarithmic Functions

Students will graph and solve exponential and logarithmic equations. Students will learn about the inverse relationship between logarithmic functions and exponential functions. They will create equations that model real-world scenarios of exponential growth and decay.

Quarter 4 (March 22 – May 28)

Unit 8: Systems

Students will graph and solve systems of linear and nonlinear equations and inequalities.

Test Review

Students will spend time reviewing material from all the above units.

Remember that passing this test does not affect the grade in the course, however it will earn students' college credit in Florida for a College Algebra Course.