

# CFISD College Algebra Scope and Sequence

(2025–2026)

## Course Description

In Independent Study in Mathematics – College Algebra, students will extend their mathematical understanding beyond the Algebra II level in a specific area or areas of mathematics. In College Algebra, students will study applications of Polynomial, rational, radical, absolute-value, piecewise Defined, Exponential and logarithmic functions, equations, inequalities, graphing skills and systems of equations using matrices.

Texas Essential Knowledge and Skills: [Independent Study in Mathematics – College Algebra](#)

## First Semester (81 Days)

### 1st Grading Period

Unit	Start Date	End Date
Review of Basic Concepts and Polynomials	Aug. 13, 2025	Sep. 10, 2025
Rational and Radical Expressions	Sep. 11, 2025	Oct. 6, 2025
Linear Equations with Applications	Oct. 7, 2025	Oct. 9, 2025

### 2nd Grading Period

Unit	Start Date	End Date
Linear Equations with Applications	Oct. 15, 2025	Oct. 22, 2025
Quadratic Equations with Applications	Oct. 23, 2025	Nov. 7, 2025
* Other Equations and Inequalities with Applications	Nov. 10, 2025	Dec. 18, 2025

## Second Semester (92 Days)

### 3rd Grading Period

Unit	Start Date	End Date
General Functions	Jan. 6, 2026	Feb. 3, 2026
Polynomials and Rational Functions	Feb. 4, 2026	Mar. 6, 2026

### 4th Grading Period

Unit	Start Date	End Date
Polynomials and Rational Functions	Mar. 16, 2026	Mar. 17, 2026
Exponential and Logarithmic Functions	Mar. 18, 2026	Apr. 24, 2026
*Systems and Matrices	Apr. 27, 2026	May 28, 2026

## Notes

\* Includes time for Final Exams.

\*\*The length of each unit is a specific number of days, but it is understood that there is a range of +/- a day. The purpose of the flexibility is meant to allow teachers the opportunity to plan for the needs of their students and to accommodate re-teaching or review when necessary. If pre-assessment indicates student mastery could be obtained in a fewer number of days, the additional time could be used for extension or carried into the next unit.

## Instructional Materials

*Essentials of College Algebra, 13th edition*

*Pearson*