



College Algebra

3 College Credits | UT Course Code: M 301 | TCCN Course: MATH 1314

High School Course Prerequisites: Algebra 1 required, Geometry recommended

Become a creative, persistent problem-solver who thinks outside the box.

The OnRamps College Algebra course is uniquely designed to encourage students to ask questions, collaborate with peers, and learn to persist through challenges as they explore function families: linear, absolute value, quadratic, polynomial, radical, rational, exponential and logarithmic.

This course builds a firm foundation for future college-level mathematics courses. Students go beyond memorizing formulas to understand the “why” behind them and work together to apply previously learned concepts to make new discoveries and connections.

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What Students Gain

- Knowledge of properties of functions, matrices and systems of equations, and complex numbers
- Abstraction, generalization, problem solving and modeling
- Foundational data analysis skills

Course Structure

Inquiry-Based Learning encourages students in this course to take an active role in the construction of their learning and build academic confidence and persistence that can be applied in all subject areas.

Big Ideas

- Function families
- Function compositions, transformations and inverses
- Matrices and systems of equations and inequalities
- The complex number system
- Modeling, data analysis and function regression
- Sequences, series and the binomial theorem



What Students Say

“You will learn so many more useful skills in this class than in any other high school math class.

This class has changed my life for the best.”

