



Discovery Precalculus: Preparation for Calculus

3 College Credits | UT Course Code: M 305G | TCCN Course: MATH
2312 | Core Code: 020

High School Course Prerequisites: Algebra II and Geometry

Develop problem-solving and abstract thinking skills that apply far beyond the math classroom.

The OnRamps Precalculus course empowers students to become creative, independent thinkers. Each unit is a series of explorations with emphasis on unpacking mathematical definitions and making logical arguments.

This course deepens and extends students' knowledge of functions, graphs and equations, and prepares students for a university-level calculus course. The concepts learned also apply to the future study of other disciplines, including engineering, physics and more.

Precalculus



What Students Gain

- Deeper understanding of how and why a function works
- A firm foundation for calculus and other future college-level coursework
- Connections between precalculus and previously learned algebra and geometry concepts

Course Structure

In this Inquiry-Based Learning course, each unit consists of a series of explorations designed to engage students and build problem-solving skills. Students take the lead in collaboration with their peers to engage in each exploration.

Big Ideas

- Functions and patterns
- Algebra and geometry
- Trigonometry
- Rates of change and limits
- Other coordinate systems
- Sequences and series

What Students Say



"[OnRamps Precalculus] challenged me to go beyond the surface level of math and really dive deep to understand it."

