

DISCOVERY PRE-CALCULUS



PREPARATION FOR CALCULUS

In Discovery Pre-Calculus, students will deepen and extend their knowledge of functions, graphs, and equations from their high school algebra and geometry courses so they can successfully work with the concepts in a rigorous university-level calculus course. This course is designed to push students well beyond “drill and kill” type exercises, with an emphasis on unpacking mathematical definitions and making logical arguments to their peers.

The course is divided into seven units. Each unit consists of a series of explorations designed to engage students and empower them to develop their problem-solving skills. In each exploration, students will create connections with prior concepts in developing the current topic. Students will experience high-quality curriculum designed by the faculty at The University of Texas at Austin. Students can earn three hours of UT credit with feedback and assessment provided by UT course sta .

[Find out more »](#)

DISCOVERY PRE-CALCULUS
BIG IDEAS

FUNCTIONS & PATTERNS

Exploring the definition and properties of functions in a tabular, analytical, and graphical manner

ALGEBRA & GEOMETRY

Exploring conics from their definitions, modeling with matrices, and understanding exponential functions

TRIGONOMETRY

Exploring the conceptual transformation from right triangles to identities to circles to graphs to rotational motion

RATES OF CHANGE & LIMITS

Qualitative introduction to Differential Calculus by exploring limits and rates

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