

# MTH 115: Precalculus Algebra and Trigonometry

This course is a one-semester accelerated combination of Precalculus Algebra (MTH 112) and Precalculus Trigonometry (MTH 113). This course is intended for students with a very strong background in college preparatory mathematics. The course covers the following topics: the algebra of functions (including polynomial, rational, exponential, and logarithmic functions), as well as the study of trigonometric (circular) functions and inverse trigonometric functions. The course includes extensive work with trigonometric identities, equations, and formulas, vectors, complex numbers, and polar graphs.

**Credits:** 4

**Lab Hours:** 0

**Lecture Hours:** 4

**Prerequisites:**

Appropriate mathematics placement score or grade of C or higher in MTH 100 with permission from the department chairperson.