

# MAT195 : Precalculus with Trigonometry

Targeting students in Mathematics, Engineering, and Physical Sciences, this course provides the foundation necessary for a rigorous study of calculus. It covers non-linear inequalities, functions, and graphs. The primary focus is on polynomial, rational, exponential, logarithmic, and trigonometric functions. Applications are also discussed extensively. Additional topics may include analytic geometry with an emphasis on the conic sections, Gibbs notation vector algebra, polar coordinates, sequences, series, and mathematical induction. (5 contact hours)

**Credits** 4

**Prerequisites**

C- or higher in [MAT175](#): College Algebra or satisfactory basic skills assessment score

**Semester Offered**

Fall

Spring

Summer