

# MAT175 : College Algebra

This is an entry-level mathematics course for students interested in a STEM track. Topics include: domain and range, piecewise functions, complex numbers, quadratic inequalities, graphs of polynomial and rational functions, fundamental theorem of algebra, transformations of graphs, inverse functions, solving exponential and logarithmic equations, Gaussian elimination, and translations of conics. Critical thinking and problem solving skills are emphasized throughout the course. This course prepares students for Precalculus with Trigonometry or Applied Calculus. (5 contact hours)

**Credits** 4

**Prerequisites**

[MAT045](#): Intermediate Algebra for STEM or satisfactory basic skills assessment score

**Semester Offered**

Fall

Spring

Summer

**Notes**

Satisfies a Mathematics/Quantitative Reasoning general education requirement.