

MATH124C : College Algebra

Topics include linear, quadratic, and higher degree equations; rational, radical, exponential, and logarithmic equations; graphs of functions; models and applications of functions; systems of linear equations; matrices and conic sections; sequences and series; and trigonometry. A graphing calculator is required. (Prerequisite: MATH 122C with a grade of "C" or higher or by recommendation of the Math/Physics Department based on placement testing.) Students who have received credit for MATH 124XC may not also receive credit for MATH 124C.

Credits 4

Lab/Practicum/Clinical Hours 0

Lecture Hours 4

Prerequisites

Students are required to pass prerequisite courses with a grade of C or higher. Exceptions apply; please consult your department chair.

Recommendation of the Math/Physics Department based on placement testing.

MATH122C

Learning Outcomes

- Describe key features of the graphs of functions when given tables, equations, or graphs.
- Solve equations including: linear, quadratic, rational, radical, absolute value, exponential, and logarithmic equations.
- Perform transformations and algebraic operations (including composition) on functions
- Solve absolute value inequalities.
- Solve and graph higher order polynomial equations and functions.
- Solve systems of equations in two and three variables.
- Solve right triangles using basic trigonometry.
- Analyze and graph equations of conic sections.
- Convert between lists, equations, and sigma notation in sequences and series.
- Apply function and equation solving skills to real world problems.