

MATH 22

(GO) College Algebra II and Analytic Geometry (3) Relations, functions, graphs; polynomial, rational functions, graphs; word problems; nonlinear inequalities; inverse functions; exponential, logarithmic functions.

Prerequisite: [MATH 021](#) or satisfactory performance on the mathematics proficiency examination examination; 1 high school unit of geometry.

TOPICS

Algebra you should know

Linear Equations

Applications/Modeling with Linear Equations

Complex Numbers

Quadratic Equations

Applications/Modeling with Quadratic Equations

Other types of Equations and Applications

Inequalities

More Inequalities & Catch-up

Absolute Value Equations and Inequalities

Rectangular Coordinates and Graphs

Circles

Functions

Linear Functions

Equations of Lines

Graphs of Basic Functions

Graphing Techniques

Function Operations & Composition

Quadratic Functions & Models

Modeling

Synthetic & Long Division of Polynomials

Zeros of Polynomial Functions

Polynomial Functions: Graphs

Rational Functions: Graphs

Inverse Functions

Exponential Functions

Logarithmic Functions

Evaluating Logs and Change of Base

Exp. and Log. Equations

Applications & Models: Growth/Decay