MATH 21

(GQ) **College Algebra I** (3) Quadratic equations; equations in quadratic form; word problems; graphing; algebraic fractions; negative and rational exponents; radicals.

**Prerequisite:** MATH 004 or satisfactory performance on the mathematics proficiency examination

**TOPICS**

Factoring
Simplifying Rational Expressions
Rational Expression Operations (× and ÷)
Rational Expressions (+ and -)
Rational Expressions, Complex Fractions
Fractional Equations
More Fractional Equation & Applications
Using Integers as Exponents
Roots & Radicals
Combining & Simplifying Radicals
Products and Quotients with Radicals
Equations with Radicals
Merging Exponents and Roots
Complex Numbers
Quadratic Equations
Completing the Square
Quadratic Formula
More Quad Equations & Applications
Interval Notation Review
Quadratic & Nonlinear Inequalities
Graphing Parabolas
More Parabolas & Circles
Graphing Ellipses
Graphing Hyperbolas
Systems of Equations
Elimination Method