

Intermediate Algebra: Rio Salado College

(For a list of materials used in the course, please see http://www.theNCAT.org/R2R/AcadPrac/CM/Rio_IntAlg_Mat.pdf.)

Intermediate Algebra is a one-semester, three-credit course that covers the following topics:

Solving Linear Systems
Solving Linear Systems
Solution by Graphing
Solution by Algebra
Problem Solving
Using Linear System

Essentials of Algebra
Numbers and Exponents
Real Numbers & Notation
Integer Exponents
Polynomials
Polynomial Operations

Polynomial Operations Factoring Polynomials Equations and Inequalities Linear

Rational Expressions
Rational Expressions
Rational Equations
Graphing Lines
Graphing Lines
Finding Equations
Absolute Value

Solving Inequalities

Rational Exponents and Radicals

Solving Equations

Roots and Radicals
Square Roots and Cube Roots
Radical Expressions

Quadratic Equations
Quadratic Equations I
Solving by Factoring
Solving by Square Root
Quadratic Equations II
Completing the Square
The Quadratic Formula
Complex Numbers
Complex Number System

Functions and Graphing
Functions
Functions and Graphs
Linear Functions
Quadratic Functions

The Exponential and Logarithmic Functions
Exponential Functions
The Exponential Function
Logs and Their Properties
The Logarithmic Function
Logarithmic Properties
Applications of Logs
Natural and Common Logs
Solving Equations

More Nonlinear Equations and Inequalities
Nonlinear Equations
Solving Equations
Radical Equations
Inequalities
Quadratic Inequalities
Rational Inequalities