



Course Description:

MATH-011A - Introductory Algebra

Units: 5

This is a five unit course in introductory algebra. Topics covered include operations with algebraic expressions, polynomials and rational expressions, factoring polynomials, linear equations, solutions of quadratic equations by factoring, solutions of linear systems by graphing, elimination, substitution and algebraic methods for solving word problems. Students who have received credit for 11R, 11S, or 12 will not receive credit for this course. This course meets the graduation requirement for AS degree.

Lecture Hours: 5 Lab Hours: None Repeatable: No Grading: O

Prerequisite: 3 units of MATH 310 with CR or placement based on math assessment.

CAN: None

Advisory Level: Read: 1 Write: None Math: None

Transfer Status: None Degree Applicable: AS

CSU GE: None District GE: M IGETC: None

Learning Outcomes:

1. Use correctly mathematical symbols appropriate to this level.
2. Generalize knowledge about computation with numbers to manipulation of algebraic expressions and solutions of equations and inequalities.
3. Translate from common language to algebraic expression and vice versa.
4. Present solutions to problems in a step-by-step manner and recognize when a solution is complete.
5. Analyze the structure of a quantitative word problem by identifying given facts and relations among them and use a structured, logical approach to solve such a problem.
6. Construct graphical representations of the solutions of algebraic problems including both equations and inequalities.