

Course Outcome Guide (COG)

Course:	Math 103 College Algebra	Credits:	3	Updated: February 19, 2020		
Course Description:	Prerequisite: "C" or higher in ASC 093, placement, or Instructor approval. Relations and functions, equations and inequalities, complex numbers; polynomial, rational, exponential and logarithmic functions; and systems of equations.					
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes			
			Course	Program	Institutional	
<ul style="list-style-type: none"> Real Number System Polynomials Factoring Rational Expressions Integer & Rational Exponents Complex Numbers Polynomial Equations and Inequalities Relations & Functions Graphs of Functions Applications of Functions Solving Systems of Equations 	<ul style="list-style-type: none"> Simplify algebraic expressions involving fractions and exponents. Differentiate between and simplify real/complex numbers. Solve basic linear/quadratic equations and inequalities. Describe a relation and function for an application problem. Analyze and construct graphs of polynomial/rational functions. Evaluate and graph exponential/logarithmic functions. Develop and solve a system of equations for a given application. 	<ul style="list-style-type: none"> Complete textbook readings, questions, and problems demonstrating mastery of both concepts and process skills. Complete examinations demonstrating mastery of both concepts and process skills. 	<ul style="list-style-type: none"> Communicate using correct mathematical terminology and notation. Analyze real-world applications and recognize methods to model them. Apply appropriate algebraic methods to solve functions and applications. 	1. Students will use reasoning skills to analyze and solve problems.	1. Students will use reasoning skills to analyze and solve problems.	