

# Course Outcome Guide (COG)

<b>Course:</b>	ASC 093 Algebra Prep III	<b>Credits:</b>	3	<b>Date Reviewed:</b>	August 21, 2019
<b>Course Description:</b>	ASC 093 ALGEBRA PREP III Prerequisite: Placement per placement guidelines. This course continues the development of the fundamental skills required for the successful completion of studies in college level mathematics courses. Topics include exponents and radicals, algebraic manipulation involving polynomial and rational forms, and unit analysis. Study skills will be incorporated throughout the course. Credit earned does not count toward any degree, nor does it transfer.				
Concepts and Issues	Process Skills	Assessment Tasks	Intended Outcomes		
			Course	Program	Institutional
<ul style="list-style-type: none"> <li>• Exponents</li> <li>• Factoring</li> <li>• Rational expressions</li> <li>• Functions</li> <li>• Parabolas</li> <li>• Second-degree equations</li> <li>• Unit analysis</li> <li>• Radicals</li> </ul>	<ul style="list-style-type: none"> <li>• Simplify expressions with negative and rational exponents</li> <li>• Factor polynomials</li> <li>• Add, subtract, multiply, and divide rational expressions.</li> <li>• Simplify complex fractions</li> <li>• Use long division to divide polynomials</li> <li>• Perform operations on functions</li> <li>• Graph parabolas</li> <li>• Solve quadratic equations</li> <li>• change quantities to different systems of units</li> <li>• Perform operations on radical expressions</li> </ul>	<p>(1) Complete assignments from the textbook that provide the knowledge and skills necessary to achieve success in the next level of mathematics</p> <p>(2) Complete in-class assignments to demonstrate mastery of key performance skills and essential content knowledge</p> <p>(3) Complete quizzes and exams to measure proficiency of specific concepts and process skills</p>	<ul style="list-style-type: none"> <li>• Students will demonstrate the ability to use algebraic skills necessary in future mathematics-related coursework</li> <li>• Students will apply the fundamental principles of algebra to other real-world related problems.</li> </ul>	<ul style="list-style-type: none"> <li>• Students will use reasoning skills to analyze and solve problems</li> </ul>	<ul style="list-style-type: none"> <li>• Students will use reasoning skills to analyze and solve problems</li> </ul>