

Course Outcome Guide (COG)

| Course: | ASC 091 Algebra Prep One | Credits: | 3 | Date reviewed: | |
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| Course Description: | This course begins the development of the fundamental skills required for the successful completion of studies in college level mathematics courses. Topics include operations with whole numbers and fractions, orders of operation, simplification and evaluation of expressions, and evaluation of one and two step linear equations. Study skills will be incorporated throughout the course. Credit earned does not count towards any degree, nor does it transfer. Placement is according to placement test scores. | | | | |
| Concepts and Issues | Process Skills | Assessment Tasks | Intended Outcomes | | |
| | | | Course | Program | Institutional |
| <ul style="list-style-type: none"> •The Real Numbers •Algebraic expressions •Linear equations and Inequalities •Exponents •Polynomials | <ul style="list-style-type: none"> • Add, subtract, multiply and divide real numbers • Use the order of operations • Evaluate numerical and algebraic expressions • Simplify algebraic expressions • Expand algebraic expressions • Solve linear equations and inequalities • Simplify expressions using the laws of exponents • Perform algebraic operations on polynomials | <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"> •Students will demonstrate the ability to use algebraic skills necessary in future mathematics-related coursework •Students will apply the fundamental principles of algebra to other real-world related problems. | <ul style="list-style-type: none"> •Students will use reasoning skills to analyze and solve problems | <ul style="list-style-type: none"> •Students will use reasoning skills to analyze and solve problems |