

COCONINO COMMUNITY COLLEGE
COURSE OUTLINE

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Status: Permanent

Effective: Fall 2016

Effective: Spring 2019, Editorial Only (H. Babiski)

A. Identification:

1. Subject Area: Math (MAT)
2. Course Number: 088
3. Course Title: Pre-Algebra
4. Credit Hours: 4
5. Course Description: Arithmetic concepts with integers, fractions, and decimals, including signed numbers. Solving linear equations and evaluating algebraic expressions. Prerequisite: Placement. Four lecture.

B. Course Goals: Upon completion of the course, the student will be able to perform arithmetic on real numbers, simplify algebraic expressions, and solve linear equations.

C. Course Outcomes: Upon completion of this course, students will be able to:

1. perform addition, subtraction, multiplication, division, and exponentiation on real numbers;
2. use order of operations with real numbers;
3. simplify and evaluate algebraic expressions;
4. solve linear equations and check solutions;
5. and solve application problems

D. Course Assessment will include a comprehensive final exam.

E. Course Content will include:

1. addition and subtraction with real numbers;
2. multiplication and division with real numbers;
3. exponentiation with real numbers;
4. absolute value with real numbers;
5. order of operations;
6. simplifying algebraic expressions;
7. solving linear equations;
8. and evaluating algebraic expressions.