DESCRIPTION:

Practical applications are the focal point of this course. Topics include equations and inequalities; linear, quadratic, polynomial, exponential and logarithmic functions and their graphs; solutions of systems of linear equations; matrices; and sequences and series. **Prerequisite:** MATH 096 or MATH 097 both with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

**NOTE:** This course does NOT serve as a prerequisite for MATH 127 nor is it sufficiently rigorous for entry into calculus.

TEXT:

College Algebra; 6th Edition; Blitzer

**NOTE:** Full-time instructors have the right to use no text or a different text.

OUTLINE:

Ch 1 - Sections 1.1 - 1.7  
Ch 2 - Sections 2.1 - 2.7  
Ch 3 - Sections 3.1, 3.2, 3.7  
Ch 4 - All Sections  
Ch 5 - Sections 5.1, 5.5  
Ch 6 - Sections 6.1, 6.3  
Ch 8 - Sections 8.1 - 8.3

OUTCOMES:

a. Solve equations and inequalities.  
b. Graph linear, exponential, polynomial, absolute value, square root, piece-wise defined, and logarithmic functions.  
c. Analyze properties of functions.  
d. Solve systems of linear equations in two and three variables using the substitution, addition, and/or matrix method.  
e. Solve problems involving matrices, sequences, and series.  
f. Apply and extend all concepts.

EVALUATION:

Grades will be determined by student performance in one or more of the following areas: in-class tests, take-home tests, homework assignments, quizzes, special projects, papers, attendance, and class participation. Degree of importance and types of assessment used will depend on the instructor.

This course satisfies or partially satisfies the Math component of a degree or certificate program at CSN.

Updated 03/24/2013