

# MATH 124 - College Algebra (3 Credits)

## 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; 5th Edition; Blitzer

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

## OUTLINE:

Ch P - Sections P.1 – P.6 are optional (for a short review)

Ch 01 - Sections 1.1 – 1.3, 1.5 – 1.7

Note: Section 1.4 is optional. If 1.4 is not included, problems from other sections must be chosen carefully.

Ch 02 - Sections 2.1 – 2.6, 2.7

Note: Section 2.8 is optional

Ch 03 - Sections 3.1, 3.2, 3.7

Note: Sections 3.3, 3.4, 3.5, 3.6 are optional

Ch 04 - All Sections

Ch 05 - Sections 5.1, 5.5

Note: Section 5.6 is optional

Ch 06 - Sections 6.1, 6.3

Ch 08 - Sections 8.1 - 8.3

## OUTCOMES:

- a. Solve equations and inequalities.
- b. Graph linear, exponential, polynomial, absolute value, square root, piece-wise defined, rational, 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. However, at least 50% of the course grade used is to be determined by proctored individual exams/assessments.

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