MATH 253 - Matrix Algebra (3 Credits)

DESCRIPTION:

Introduces linear algebra, including matrices, determinants, vector spaces, linear transformations, Eigenvectors, and Eigenvalues. Prerequisite: Math 182 with a grade of C or better.

TEXT:

To be announced in class.

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

OUTLINE:

To be announced in class.

OUTCOMES:

a. Understand the definition of a matrix.
b. Understand the definition of a determinant.
c. Be able to perform basic matrix operations, including addition, multiplication, and transformations.
d. Be able to identify and work with special matrices.
e. Understand the basic concepts of vectors and vector spaces, including inner products.
f. Work with Eigenvalues and Eigenvectors.

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.

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