

## 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

### 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.

### TEXT:

To be announced in class.

### OUTLINE:

To be announced in class.

### EVALUATION:

Grades may 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 the math requirement in the General Education Core component for selected degree and certificate programs at CSN.**