

Bemidji State University

MATH 3310: Linear Algebra

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Systems of linear equations, linear transformations, matrix operations, vector spaces, eigenvalues and eigenvectors, orthogonality, and applications. Prerequisites: MATH 2210 and MATH 2472 or consent of instructor.

B. COURSE EFFECTIVE DATES: 08/22/1997 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Systems of linear equations and their solutions
2. Matrices and matrix algebra
3. Diagonalization of a matrix
4. Vector spaces
5. Polynomial approximation to transcendental functions
6. Fourier analysis

D. LEARNING OUTCOMES (General)

None

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted