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