

# Bemidji State University

## MATH 2480: Multivariable Calculus

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Three dimensional analytic geometry, spherical, and cylindrical coordinate systems, vectors, partial derivatives, and multiple integrals. A graphing calculator is required. Prerequisite: Successful completion of MATH 2472.

**B. COURSE EFFECTIVE DATES:** 08/21/1997 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Vectors
2. Vector-valued functions
3. Functions of two or three or more variables
4. Differentiation and integration of such functions

### D. LEARNING OUTCOMES (General)

1. conduct a vector analysis.
2. understand the three-fold approach to learning mathematics: analytical, numerical, and graphical.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted