

# Bemidji State University

## MATH 4410: Introduction to Analysis

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Functions, sequences, and properties of limits. Topics from calculus including continuity, differentiation, and integration. Open and closed sets, cluster points, and other topological properties. Prerequisites: MATH 2210 and MATH 2472.

**B. COURSE EFFECTIVE DATES:** 07/31/2012 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Continuity
2. Differentiation
3. Integration
4. Limits
5. Sequences

### D. LEARNING OUTCOMES (General)

1. deepen their understanding of one-variable calculus, via a concentrated study of the proofs of the theorems related to the calculus.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted