

Bemidji State University

MATH 4470: Advanced Calculus

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Properties of limits, vector valued functions, infinite series, Taylor series, uniform convergence, improper integrals, convergence in the mean and Fourier series. Prerequisite: MATH 2210 and MATH 2480. (Might not be offered every year.)

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

C. OUTLINE OF MAJOR CONTENT AREAS

1. Limits and their properties
2. Taylor and Fourier Series
3. Gamma and beta functions
4. Line and surface integrals
5. Improper integrals

D. LEARNING OUTCOMES (General)

1. Have a heightened level of mathematical maturity
2. Have an extension of content from the calculus sequence

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted