

# Minnesota State University Moorhead

## MATH 416: Mathematics in the Secondary School

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Objectives, methods, materials, and evaluation of teaching mathematics in grades 9-12. This course is the upper division writing course for BS majors in mathematics with the emphasis in teaching. Students in this course must have Junior standing.

**B. COURSE EFFECTIVE DATES:** 06/01/1995 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Formulate a personal sense of what is mathematics and what it means to teach mathematics.
2. Plan lessons that involve thoughtful questioning while balancing styles of presentation.
3. Create assessments that will be used to evaluate students understanding.
4. Become competent in appropriate uses of technology in teaching.
5. Practice equity of instruction through applicable modifications of lessons.

### D. LEARNING OUTCOMES (General)

1. ζ a minimum of 16 pages (4800 to 5000 words) per student of formal, polished writing in multiple assignments that span the semester, rather than one long paper handed in at the end of the term;
2. ζ include at least one assignment that requires drafting and revision;
3. ζ include informal writing-to-learn assignments or activities;

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted