

**M.Ed. In Mathematics (Secondary and Community College Teaching)**

## 1. Background Requirements

Students are required to make up background courses if they do not have sufficient undergraduate mathematics.

The minimum undergraduate requirements are:

MATH 2471      Calculus I

MATH 2472      Calculus II

And 9 hours of Junior/Senior mathematics courses.

Background work must be completed before enrolling in graduate courses.

## 2. Curriculum

**Core Courses** **9 hours**

All students are required to take the following  
9 hours of courses:

MATH 5381 Foundations of Set Theory

MATH 5382 Foundations of Real Analysis

MATH 5384 Geometric Approach to Abstract Algebra

## Minor

The minor should be selected from the list of approved minors in the Graduate Catalog.

**Elective Courses** **18 hours**

All students are required to take 18 hours. The following Mathematics courses are recommended. Student's selection of courses must be approved by the Graduate Advisor.

MATH 5303 History of Mathematics

MATH 5304 Topics in Mathematics for Secondary Teachers

MATH 5386 Knots and Surfaces: Intro to Topology

MATH 5388 Discrete Mathematics

MATH 5390 Statistics

MATH 5392 Survey of Geometries

The student may select some elective hours from other mathematics courses not listed here if the prerequisites are met.

## Comprehensive Exam

Take a written comprehensive exam.

### Total for the Degree

## 27 hours plus a minor