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