Ta4-13.742tBo20202Bed

June 29, 202218 by the _____on May 4, 2023,

Master of Science in Mathematics for Educators is designed for individuals seeking to deepen and broaden mathematical knowledge that supports work as a mathematics instructor at all levels. The mathematics content is complemented by coursework that explores mathematics education research and theory. The program includes a blend of courses from pure and applied mathematics, statistics, mathematics education, and may also include coursework from the College of Education.

Prerequisites

- 1. A bachelor's degree in mathematics or mathematics education, or a bachelor's degree with at least 24 upper division units in mathematics from an accredited college or university.
- 2. The following course work, conquivalent, with grades of C or better:
- x MATH 247 Introduction to Linear Algebr@ units)
- x MATH 310 History of Early Mathematids units)
- x MATH 341 Number Theory(3 units)
- x MATH 355 College Geometr(3 units)
- x MATH 361A Introdu

division coursework which includes the following:

A minimum of 9 graduate or approved uppedivision units of mathematics:

This coursework must include at least one **500**el mathematics course. If not previously taken, this coursework must also include:

x MATH 444 Introduction to Abstract Algebr@ units)

or

x MATH 445 Abstract Algebra for Secondary Mathematics Teac(@units)

A minimum of 15 graduate units of mathematics education:

This coursework must include the following two courses:

- x MTED 511 Mathematics Teaching and Learni(3gunits)
- x MTED 512 Curriculum and Assessment in Mathema (@sunits)

This coursework must also include at least 9 units from the following 6 courses:

- x MTED 540 Algebra in the School Curriculu (3) units)
- x MTED 559 Geometry and Measurement in the School Curricu(Granits)
- x MTED 569 Analysis in the Secondary Curricul (Brunits)
- x MTED 579 Mathematical Modeling in the School Curricul (Conunits)
- x MTED 589 Probability and Statistics in the School Curricu(Granits)
- x MTED 590 Special Topics in Mathematics Education3 units)

A minimum of 6 units of approved upper division or graduate electives:ins inm

- x MTED 560 Analysis in the Secondary Curricul (Grunits)
- x MTED 579 Mathematical Modeling in the School Curricul (@nunits)
- x MTED 589 Probability and Statistics in the School Curricu(Granits)

Option B.

Subject to the approval of the Mathematics Education Committee of the Department of Mathematics and Statistics, write a thesis in mathematics education and defend it orally. This option requires enrollment in at least 3 units and no more than 6 units of MTED 698.

x MTED 698 Thesis in Mathematics Education units)

Mathematics Education Thesis

Students choosing the thesis option must consult with the Mathematics Education Graduate Advisor to select a thesis advisor. A proposal is then