

# MATHEMATICS | MASTER OF SCIENCE IN EDUCATION (MATHEMATICS EMPHASIS)

The Master of Science in Education (MSE) with an Emphasis in Mathematics is a degree offered by the Department of Mathematics and the Department of Advanced Education. This degree is designed for a professional with a bachelor's degree in Mathematics Education who seeks to obtain the advanced training in mathematics education to teach at the college level.

To earn a Master of Science in Education with an emphasis in Mathematics, the student must complete a minimum of 15 hours of graduate level education courses and a minimum of 18 hours of combined graduate level mathematics content and mathematics pedagogy courses as described below.

## Program Summary

Code	Title	Hours
<b>Education Core Courses</b>		
AEP 800	Innovative Technology Integration	3
AEP 803	Educational Research	3
AEP 858	Data Analysis and Assessment	3
AEP 867	Instructional Design and Assessment	3
or MATH 870	Teaching Techniques	
AEP 880	Cultural Diversity	3
<b>Mathematics Content Courses</b>		
Select 9-12 credits of the following:		9-12
MATH 631G	Advanced Calculus I	4
MATH 645G	Discrete Mathematical Models	3
MATH 650G	Probability and Statistics	3
MATH 671G	Theory of Numbers	3
MATH 673G	Problems	1-4
MATH 805	Problems in the History of Mathematics	
MATH 810	Abstract Algebra I	
MATH 831	Functions of a Complex Variable	
<b>Mathematics Pedagogy Courses</b>		
Select 6-9 credits of the following:		6-9
MATH 881	Geometry and Measurement	
MATH 882	Concepts of Algebra	
MATH 883	Concepts of Calculus	
MATH 885	Concepts of Probability and Statistics	
Masters Degree Comprehensive Examination/Assessment		
<b>Total Hours</b>		<b>33</b>

## Graduate School Graduation Requirements

### All Graduate degrees <sup>1</sup> require:

- Maintain a C or higher in all coursework.
- Maintain a cumulative GPA of 3.0 or higher. (Refer to program)
- A minimum of 30-75 hours of Graduate course work. (Refer to program)

- Comprehensive Examination or equivalent assessment is required. (Master of Liberal Studies requires a Comprehensive Examination **and** Concentration Exam)
- Degree completion within 8 years.

<sup>1</sup> Refer to degree program for any additional requirements.