

MATHEMATICS EDUCATION, MSED

Introduction

The MSED in mathematics education integrates educators' learning of mathematical content, pedagogy, and research. This approach fosters educators' ability to teach effectively at the K-12 level. The program arises from collaboration between the School of Education and Human Development (SEHD) and the Department of Mathematical and Statistical Sciences in the College of Liberal Arts and Sciences (CLAS). It interweaves both mathematical and educational understandings that lead to a truly interdisciplinary program, including a possibility to conduct one's own research project.

Program Requirements

The MSED core courses provide a sound basis in mathematics education, including learning theories and progressions, teaching approaches, and deep appreciation for diversity and philosophical foundations.

Code	Title	Hours
MSED Core		
MTED 5030	Theories Of Mathematics Learning	3
MTED 5040	Mathematics Teaching - Theory and Practice	3
MTED 5050	Critique Of Mathematics Education Research	3
MTED 5060	Developmental Pathways In Students' Mathematical Thinking	3
RSEM 5080	Research In Schools	3
	or RSEM 5120 Introduction to Research Methods	
Mathematics Core		
<i>Required Mathematics Core</i>		
Select three courses in consultation with faculty advisor ¹		9
<i>Optional Course Work</i>		
Select one of the following:		6
Thesis Option (if chosen)		
SCED 5950	Master's Thesis	
Non-Thesis Option: Elective Courses		
Select two courses relevant to the grade level with which the teacher works in consultation with a faculty advisor.		
Total Hours		30

¹ Students may select 5000-level MATH, MCKE, MTED, or RSEM courses relevant to the grade-level with which the teacher works with approval from faculty advisor. (Note: Several mathematical content courses are taught by the mathematics education faculty.)

Program Requirements and Courses

To complete the MSED program and earn a master's degree, students must complete the appropriate course work as outlined above. All courses require a grade of B- or better and a 3.0 minimum GPA is required for graduation.

Planning

Students take 1-2 courses per semester. Core courses are offered one per semester on a rotating basis.

Active Status

Students must complete their programs within seven years, maintaining a GPA of 3.0. Students typically take four courses each calendar year. Failure to enroll over three contiguous semesters will result in a requirement to submit readmission materials.