

Mathematics for Elementary School Teachers (MELT), Major

The Mathematics for Elementary School Teachers major (MELT) is for College of Education students who are seeking teaching certification at the elementary school level, while obtaining strong mathematical preparation. This program is designed to prepare “mathematics specialists” who provide vision, focus and leadership in elementary schools.

Major in Mathematics for Elementary School Teachers (MELT)

This major is for students in the College of Education enrolled in Elementary Education (grades K-9). The major in mathematics for elementary teachers consists of twelve required mathematics courses for a total of 38 credit hours as listed below.

Note:

- From the beginning of the work toward a degree, students should consult with both a department adviser and the director of teacher education in the College of Education about the appropriate sequence of courses. University and state requirements for teacher certification are described in the College of Education section of this bulletin.

Code	Title	Hours
Required Courses:		
MATH 1450	Calculus 1	4
MATH 1455	Calculus 2	4
MATH 2030	Problem Solving and Reasoning for Teachers	3
MATH 2031	Number Systems and Operations for Elementary Teachers	3
MATH 2032	Algebra and Geometry for Teachers	3
MATH 2350	Foundations of Mathematics	3
MATH 3100	Linear Algebra and Matrix Theory	3
MATH 3700	An Introduction to Modeling with Simulation and Scientific Computing	3
MATH 4310	History of Mathematical Ideas	3
MATH 4320	Theory of Numbers	3
MATH 4420	Foundations of Geometry	3
MATH 4720	Statistical Methods	3
Total Credit Hours:		38

TYPICAL PROGRAM FOR MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS MAJORS

Freshman

First Term	Hours	Second Term	Hours
ARSC 1020, BIOL 1420, PHYS 1007, or PHYS 1009	3	EDUC 1001	3
EDUC 1000	3	EDUC 4217	3
ENGL 1001	3	MATH 1455	4
MATH 1450	4	MATH 2030	3
PHIL 1000 or THEO 1001	3	PHIL 1001 or THEO 1001	3
Service Learning		Service Learning	
		16	16

Sophomore

First Term	Hours	Second Term	Hours
CORE 1929 (MCC)	3	DSCV (MCC) ^{1,2}	3
DSCV (MCC) ^{1,2}	3	EDUC 2002	3
EDUC 2001	3	EDUC 4307	4

MATH 2031	3	MATH 2032	3
MATH 2350	3	MATH 3100	3
Field Experience 1		MATH 4310 or 4320	3
		15	19
Junior			
First Term	Hours	Second Term	Hours
DSCV (MCC) ^{1,2}		3 DSCV (MCC) ^{1,2}	3
EDUC 4003		3 EDUC 4337	3
EDUC 4327		3 EDUC 4357	4
EDUC 4367		5 MATH 4310 or 4320	3
MATH 4420		3 MATH 4720	3
		17	16
Senior			
First Term	Hours	Second Term	Hours
CORE 4929 (MCC)		3 EDUC 4966 (must be taken for 15 cr. hrs.)	15
EDUC 2330		3	
EDUC 4000		3	
EDUC 4964		4	
MATH 3700		3	
		16	15

Total Credit Hours: 130

¹ The four courses in the Discovery Tier (DSCV) of the MCC must be completed in the same theme and include the following content areas: Humanities (HUM), Social Science (SSC), Natural Science and Mathematics (NSM) and one elective (ELE), which is an additional course from any of the three content areas. A maximum of two courses in the Discovery Tier can apply towards a primary major.

² Students must also complete the Writing Intensive (WRIT) and Engaging Social System and Values 2 (ESSV2) requirements of the MCC. These requirements can be fulfilled through designated courses in the Discovery Tier or other degree requirements.

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