MASTER OF ARTS IN EDUATION: MATH & SCIENCE EDUCATION OPTION

Requirements (48 units)

The cohort program for K-12 teachers is designed to enhance their mathematics and science pedagogical content knowledge for the 21st century. The Common Core Standards for Mathematics and the Next Generation of Science Standards reflect society's need for a deep understanding of mathematics and science. Implementation of these standards will require a dynamic shift in the way school mathematics and science is taught. The M.A. in Education: Mathematics/Science Option provides the knowledge and skills to enhance learning in Foundational Mathematics (i.e., algebra, geometry, and probability and statistics) and General Science (i.e., earth, life, and physical sciences).

All candidates are encouraged to meet with their program advisor to develop their course plan. The following EXAMPLE course sequence is effective Fall 2013, and is subject to change at any time.

Year 1 Courses:

Quarter 1 (Fall)	Quarter 2 (Winter)	Quarter 3 (Spring)
ESTM 624 Curriculum &	ESTM 625 Curriculum &	ESTM 626 Curriculum &
Pedagogy in Elementary	Pedagogy in Algebra (4	Pedagogy in Geometry (4
Mathematics (4 units)	units)	units)
EDSC 623 The Science	EDSC 647 Advanced Topics	EDSC 648 Advanced Topics
Curriculum (Earth Science (4	in Teaching Science I: Life	in Teaching Science II:
units)	Science (4 units)	Physical Sciences (4 units)
		EDUC 605 Foundations in
		Education (4 units)

Year 2 Courses:

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Quarter 1 (Fall)	Quarter 2 (Winter)	Quarter 3 (Spring)	
EDSC 634 Current Research	EDSC 643 Assessment in the	ESTM 628 Integrating	
in Science Classroom ^a (4	Science Classroom ^a (4 units)	Mathematics & Science	
units)		Education (4 units)	
EDUC 607 Introduction to	EDSC 644 Inquiry Teaching	EDSC 999 Comprehensive	
Educational Research (4	& Learning in the Science	Examination ^b (0 units)	
units)	Classroom ^a (4 units)		

^a These courses will also include relevant work pertaining to the mathematics classroom.

REV.: 08/29/2013

^b In addition to the Comprehensive Examination Option, students may choose a Thesis Option.