

Teaching (MA): Math Education Concentration

Degree Requirements

Code	Title	Hours	Counts towards
Core Courses			15
ED 508	Exploring Diversity in Classroom and Community		
ECI 579	Organization and Behavioral Management of Inclusive Classrooms		
ED 507	Principles of Developing and Interpreting Assessment		
ED 570	Classroom Action Research		
ED 571	Inquiry and Professional Development		
ED 569	Teaching Internship: MAT		
ED 572	Teacher Leadership		

Concentration Requirements

Code	Title	Hours	Counts towards
Required Courses			12
Select four of the following courses:			
EMS 580	Teaching Mathematics with Technology		
EMS 510	Interactions In the Mathematics Classroom		
EMS 513	Teaching and Learning of Algebraic Thinking		
EMS 514	Teaching and Learning of Geometric Thinking		
EMS 519	Teaching and Learning of Statistical Thinking		

EMS 570 & EMS 572	Methods and Materials for Teaching Mathematics and Teaching Mathematics Topics in Senior High School (must be taken together)		
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Mathematical Science Courses 6

Select a minimum of six hours of Mathematical Science courses at the 400- or 500-level approved in conjunction with the academic committee – see "Mathematical Science Courses" listed below

Total Hours 33

Mathematical Science Courses

Code	Title	Hours	Counts towards
Select a minimum of six hours of courses listed below:			6
MA 402	Mathematics of Scientific Computing	3	
MA 405	Introduction to Linear Algebra	3	
MA 493	Special Topics in Mathematics	1-6	
MA 501	Advanced Mathematics for Engineers and Scientists I	3	
MA 502	Advanced Mathematics for Engineers and Scientists II	3	
MA 507	Survey of Real Analysis	3	
MA 508	Survey of Geometry	3	
MA 509	Survey of Abstract Algebra	3	
MA 511	Introduction to Advanced Calculus	3	
MA 513	Introduction To Complex Variables	3	
MA 523	Linear Transformations and Matrix Theory	3	
MA 580		3	
MA 591	Special Topics	1-6	

ST 501	Fundamentals of Statistical Inference I	3
ST 511	Statistical Methods For Researchers I	3
ST 512	Statistical Methods For Researchers II	3

Michelle Marie Falter

Tamecia Jones

Erin Krupa

Crystal Lee

Paula McAvoy

Amato Nocera

Jamie Pearson

Samantha Marshall Pham

William Reynolds

Jonee Wilson

Faculty

Full Professors

Margaret R. Blanchard

Aaron C. Clark

Jere Confrey

Cathy L. Crossland

Karen Hollebrands

M. Gail Jones

Hollylynne Stohl Lee

John Kelly Lee

Soonhye Park

Edward J. Sabornie

Lee Stiff

Practice/Research/Teaching Professors

Drinda Elaine Bengue

Vandna Gill Bindra

Sarah Cannon

Cyndi Edgington

Nolan Edward Fahrer

Valerie Faulkner

Anne Harrington

Kristen Hoffmann

Micha Jennine Jeffries

Jill Jones

Joanna Greer Koch

W. Matt Reynolds

Linda Smith

Associate Professors

Candy M. Beal

K.C. Busch

Sarah Carrier

Cesar Delgado

Cameron D. Denson

Jessica Hunt

Karen Keene

Meghan Manfra

Angela Wiseman

Carl A. Young

Emeritus Faculty

Ruie J. Pritchard

Assistant Professors

Robin Anderson

Sunghwan Byun