

Teaching (MA): Middle Grades Math 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 from below:			
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		
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Mathematical Science Courses **6**

Select 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 six hours of the following 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

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