

Continued Mathematics (1-6, 5-8, or 8-12)

Graduate Certificate

Mathematics Specialist Certificate

12 credits, 2 terms

COURSE OFFERINGS PLAN / PREREQUISITES

Pfrofessional Seminar, Independent Learning Projectevery term			
MAT609	Euclidean Geometry Fall		
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MAT625	Number Theory (preq. MAT611) Fall		
MAT611	Calculus I (preqs. MAT607, 609) Fall, Spring		
MAT615	History of Math (preqs. MAT607, 609, 611) Fall, Spring		
MAT631	Calculus II (preq. MAT611) Spring		
MAT613	Discrete Math (preqs. MAT607, 609)Spring		
MAT621	Data Analysis		
MAT635	Applied Math (preqs. MAT611, 631) Spring		
MAT623	Teaching Numerical & Geometric		
	Structures Spring, Summer		
MAT603	Arithmetic to Algebra Summer		
MAT605	Technol. in Math (preqs. 607, 609, 611, 613) Summer		
MAT607	College Algebra Summer		
MAT618	Math Essentials Summer		
MAT627	Abstract Algebra (preq. MAT607) Summer		
MAT629	Non-Euclidean Geometry (preq. MAT609) Summer		
MAT633	Probability & Statistics (preq. MAT613) Summer		
MAT790-791 Practicum and Practicum Seminar Fall, Spring			

Prerequisites as listed or program chair's approval.

This program is best suited for current classroom teachers who wish to add mathematics as a new subject area to their professional skills; and to new teacher candidates entering the teaching profession who are non-mathematics majors, and who wish to earn a highly qualified title to their academic experience and broaden their teaching careers as a mathematics specialist or mathematics coach.

Choose math specialist option in elementary/middle school or high school math, and take courses as outlined below.

3-credit courses for your Math Specialist choice		Elem/Middle School	High School
MAT603	Arithmetic to Algebra: Developing Math Patterns & Ideas	· •	
MAT623	Teaching Numerical & Geometric Structures	•	
MAT615	History of Math	•	•
MAT708	Diagnosis & Remediation of Learning Problems in Math	•	•
MAT611	Calculus I		•
MAT609	Euclidean Geometry		•

Admissions requirements: Bachelor's degree and other general requirements. Applicants for levels 5-8 and 8-12 must take a Cambridge College math placement test. Based on test results and program chair's recommendation, selected lower level math courses may be required before initial licensure courses.

Matriculation: All new students must register for the non-licensure option until they pass the MA Communication & Literacy Test (MTEL).

Non-licensure option: All program components are required except the Practicum, Practicum Seminar and teacher tests. Non-licensure students must complete all pre-practicum hours embedded in the courses.

Satisfactory academic progress — All students must maintain a minimum GPA of 3.0 or be placed on academic probation.

Program and course schedule subject to change.



