MEd

Continued ➡ **Mathematics** (5-8 or 8-12)

Graduate Certificate

Mathematics Specialist Certificate • CIP code 131311

12 credits, 2 terms

Math placement test: 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.

Non-licensure option: All program components are required (including pre-practicum) *except* for SEI, Practicum Readiness course, Practicum, Practicum Seminar, and MTEL exams.

*Program credits: 35 credits total if SEI is completed before enrollment, 38 credits if SEI is completed at Cambridge College.

Program and course schedule subject to change.

Program chair: John O'Keefe, MEd
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Program Description — 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	Common Core Math	•	
MAT615	History of Math	•	•
MAT700	Inclusion in Math Class	•	•
MAT611	Calculus I		•
MAT609	Euclidean Geometry		•

If a student wishes to cover both levels, one four-course certificate for one level must be completed, and then the student may re-enroll to complete a second certificate for the other level: Complete the remaining two courses above, and two more courses below, for a total of four courses:

MAT605	Technol in Math Learning & Teaching
MAT613	Discrete Math

The two certificates may not be taken concurrently.

COURSE OFFERINGS PLAN / PREREQUISITES

MAT700	Inclusion in Math Class	every term
MAT623	Common Core Math	Fall, Summer
MAT605	Technol. in Math (preqs. 607, 609, 611, 613)	Fall
MAT609	Euclidean Geometry	Fall
MAT625	Number Theory (preq. MAT611)	Fall
MAT611	Calculus I (preqs. MAT607, 609)	Fall, Spring
MAT618	Math Essentials	Fall, spring
MAT615	History of Math (preqs. MAT607, 609, 611)	Fall, Spring
MAT708	Diagnosis & Remediation of Learning Problems in Mathematics	Fall, Spring
MAT790-791	Practicum and Practicum Seminar	Fall, Spring
MAT631	Calculus II (preq. MAT611)	Spring
MAT613	Discrete Math (preqs. MAT607, 609)	Spring
MAT635	Applied Math (preqs. MAT611, 631)	Spring
MAT603	Arithmetic to Algebra	Summer
MAT607	College Algebra	Summer
MAT627	Abstract Algebra (preq. MAT607)	Summer
MAT629	Non-Euclidean Geometry (preq. MAT609)	Summer
MAT633	Probability & Statistics (preq. MAT613)	Summer

Prerequisites as listed or program chair's approval.

Course delivery format of all courses is face-to-face (F2F).

(All courses @ 3 credits except as noted.)