



Mathematics Specialist Certificate

• CIP code 131311 • 12 credits, 2 terms

MEd

Continued

Mathematics (5-8 or 8-12)

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.

COURSE OFFERINGS PLAN / PREREQUISITES

MAT 603	Arithmetic to Algebra	Fall
MAT 605	Technol. in Math (preqs. 607, 609, 611, 613)	Spring
MAT 607	College Algebra	Spring
MAT 609	Euclidean Geometry	Fall
MAT 611	Calculus I (preqs. MAT607, 609)	Fall
MAT 613	Discrete Math (preqs. MAT 607, 609)	Fall
MAT 615	History of Math (preqs. MAT 607, 609, 611)	Summer
MAT 618	Math Essentials	Fall, Spring
MAT 623	Common Core Math	Spring, Summer
MAT 625	Number Theory (req. MAT 611)	Summer
MAT 627	Abstract Algebra (req. MAT 607)	Fall
MAT 629	Non-Euclidean Geometry (req. MAT 609)	Spring
MAT 631	Calculus II (req. MAT 611)	Spring
MAT 633	Probability & Statistics (req. MAT 613)	Spring
MAT 635	Applied Math (preqs. MAT 611, 631)	Fall
MAT 700	Inclusion in Math Class	every term
MAT 708	Diagnosis & Remediation of Learning Problems in Mathematics	Fall, Spring
MAT 790-791	Practicum and Practicum Seminar	Fall, Spring

Prerequisites as listed or program chair's approval.

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

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
MAT 603	Arithmetic to Algebra: Developing Math Patterns & Ideas.	•
MAT 623	Common Core Math	•
MAT 605	Technol in Math Learning & Teaching	•
MAT 700	Inclusion in Math Class	•
MAT 611	Calculus I	•
MAT 609	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:

- MAT 615 History of Math
- MAT 613 Discrete Math

The two certificates may not be taken concurrently.

(All courses @ 3 credits except as noted.)