



Mathematics Specialist Certificate

• CIP code 131311 • 12 credits, 2 terms

M.Ed.

Continued

Mathematics (5-8 or 8-12)

Practicum Prerequisites 1-4 credits

- Pass all MTEL teacher tests required for this license: Communication & Literacy, and Middle School Mathematics or Mathematics (8-12)
- SEI 605 Sheltered English Immersion or DESE-endorsed course or SEI MTEL.
- Pass all required courses.
- Pre-Practicum — Successfully complete program-specific hours in diverse settings (0 credit)
- EDU 704 Practicum Readiness (1 credit)
- Submit Practicum Application and Placement Approval Forms.

Practicum & Seminar (licensure students only)..... 4 credits

Practicum in Mathematics — 300 hours (2 credits)

Guided and evaluated by a licensed/certified math teacher in the classroom and Cambridge College mathematics supervisor. Practicum locations are subject to DESE regulations and must be discussed with the program chair and approved by the pre-practicum/practicum coordinator.

MAT 794B Practicum 5-8. Fall, Spring

MAT 794C Practicum 8-12. Fall, Spring

MAT 791 Practicum Seminar

in Mathematics Teaching (2 credits). Fall, Spring

Electronic exit portfolio (Tevera) required for credit.

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 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.)