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

Graduate Certificate

Mathematics Specialist Certificate • CIP code 131311

12 credits, 2 terms

Practicum Prerequisites

- Pass all MTEL teacher tests required for this license: Communication & Literacy, and Elementary Mathematics, Middle School Mathematics, or Mathematics (8-12).
- SEI605   Sheltered English Immersion or ESE-endorsed course or SEI MTEL.
- Pre-Practicum — successfully complete 90 hours in diverse settings (0 credit).
- Pass all required courses including Independent Learning Project.
- Submit Practicum Application and Practicum Placement Approval Form.

Practicum & Seminar (licensure students only) . . . . . 5 credits

Practicum in Mathematics — 300 hours (3 credits)

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

MAT790**A**   Practicum 1-6

MAT790**B**   Practicum 5-8

MAT790**C**   Practicum 8-12

MAT791   **Practicum Seminar** in Mathematics Teaching (2 credits)

Electronic exit portfolio (Taskstream) required for credit.

COURSE OFFERINGS PLAN / PREREQUISITES

Professional Seminar, Independent Learning Project . . . . Fall, Spring

MAT618	Math Essentials	Fall, Spring
MAT623	Teaching Numerical & Geometric Structures.	Fall, Summer
MAT708	Diagnosis & Remediation of Learning Problems in Mathematics	Fall, Spring
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
MAT615	History of Math (preqs. MAT607, 609, 611) . .	Fall, Spring
MAT790-791	Practicum and Practicum Seminar	Fall, Spring
MAT631	Calculus II (preq. MAT611)	Spring
MAT613	Discrete Math (preqs. MAT607, 609)	Spring
MAT621	Data Analysis	Summer
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).

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	Teaching Numerical & Geometric Structures.	•	
MAT615	History of Math	•	•
MAT708	Diagnosis & Remediation of Learning Problems in Math	•	•
MAT611	Calculus I		•
MAT609	Euclidean Geometry		•

(All courses @ 3 credits except as noted.)