

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.

COURSE OFFERINGS PLAN / PREREOUISITES

| | • | | |
|---|---|--|--|
| 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 | | |
| MAT615 | History of Math (preqs. MAT607, 609, 611)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 | | |
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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 | | Elem/Middle High | |
|------------------|---|------------------|--|
| for your N | Nath Specialist choice | School School | |
| MAT603 | Arithmetic to Algebra: Developing Math Patterns & Ideas | S • | |
| MAT623 | Common Core Math | | |
| MAT605 | Technol in Math Learning & Teach | ing•• | |
| 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:

MAT615 History of Math MAT613 Discrete Math

The two certificates may not be taken concurrently.

(All courses @ 3 credits except as noted.)

