



Master of Education Leading to Massachusetts INITIAL LICENSURE

Mathematics (1-6, 5-8, or 8-12)

For licensure: 38 credits, 4 terms • Without licensure: 33 credits, 3 terms
 Program approved by the Mass. Dept. of Elementary & Secondary Education

Requirements

Professional Seminar & Project9 credits

EME691N-693N Professional Seminar in Mathematics -
 Initial Level — 3 terms @ 2 credits. 6
 Includes clinical journal, assessments, professional growth plan.
 EME800 Independent Learning Project 3

Initial Licensure Courses 24 credits

Take courses for your licensure level 1-6...5-8 . 8-12

MAT603	Arithmetic to Algebra: Developing Math Patterns & Ideas	•••••
MAT605	Technol in Math Learning & Teaching	•••••
MAT607	College Algebra	•••••
MAT609	Euclidean Geometry	•••••
MAT611	Calculus I	•••••
MAT613	Discrete Math	•••••
MAT615	History of Math	•••••
MAT618	Math Essentials	•••••
MAT621	Data Analysis	•••••
MAT623	Numerical & Geometric Structures	•••••
MAT625	Number Theory	•••••
MAT627	Abstract Algebra	•••••
MAT629	Non-Euclidean Geometry	•••••
MAT631	Calculus II	•••••
MAT633	Probability & Statistics	•••••
MAT635	Applied Math	•••••

Practicum5 credits

Prerequisites

- Pass all teacher tests required by your state for this license. Massachusetts: Communication & Literacy and Math 1-6, 5-8, or 8-12 (MTEL).
- Pre-Practicum — 90 hours 0
- Pass all required courses.

MAT790 Practicum in Mathematics— 150 hours 3

Home state site under a mathematics teacher with the appropriate license, under Cambridge College supervision.

- MAT790A Practicum 1-6
- MAT790B Practicum 5-8
- MAT790C Practicum 8-12

MAT791 Practicum Seminar in Mathematics Teaching 2

- Exit Performance Portfolio required for credit.

Non-licensure option

All program components are required except the Practicum, Practicum Seminar, and teacher tests. Program will total 33 credits. Non-licensure students must complete all course contact hours and pre-practicum hours embedded in the courses.

Course Offerings Plan

EVERY TERM

EME691N-693N Professional Seminar start in first term
 Take Communication & Literacy test (MTEL) first term
 EME800 Independent Learning Project with Seminar III

SUMMER With the National Institute for Teaching Excellence

MAT623 Numerical & Geometric Structures
 MAT603 Arithmetic to Algebra
 MAT605 Technol. in Math preqs. MAT607, 609, 611 & 613
 MAT607 College Algebra
 MAT618 Math Essentials
 MAT627 Abstract Algebra. preq. MAT607
 MAT629 Non-Euclidean Geometry preq. MAT609
 MAT633 Probability & Statistics preq. MAT613

FALL

MAT609 Euclidean Geometry
 MAT611 Calculus I preqs. MAT607 & 609
 MAT615 History of Math preqs. MAT607, 609 & 611
 MAT625 Number Theory. preq. MAT611
 MAT790 Practicum *and* MAT791 Practicum Seminar

SPRING

MAT611 Calculus I preqs. MAT607 & 609
 MAT613 Discrete Math preqs. MAT607 & 609
 MAT615 History of Math preqs. MAT607, 609 & 611
 MAT621 Data Analysis
 MAT623 Numerical & Geometric Structures
 MAT631 Calculus II. preq. MAT611
 MAT635 Applied Math preqs. MAT611 & 631
 MAT790 Practicum *and* MAT791 Practicum Seminar

All courses meet for 35 contact hours/3 credits.

Prerequisites as listed or program coordinator's approval.

Course offerings plan for Cambridge, subject to change without notice. Regional centers set their own schedules.

Admission requirements: Bachelor's degree and other general requirements (see Admission).
 Applicants for levels 5-8 and 8-12 must take a Cambridge College math placement test. Based on test results and program coordinator's recommendation, selected lower level math courses may be required before initial licensure courses.
Program subject to change: As Massachusetts requirements for licensure change, the College reserves the right to alter the program to better prepare students to meet new requirements.

Cambridge College School of Education

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