



Master of Education Leading to Massachusetts INITIAL LICENSURE

Middle School Mathematics/Science (5-8)

43 credits, 6 terms • This program has been submitted to the Mass. Dept. of Elementary & Secondary Education for approval. Some changes may be required pending approval.

Requirements

Professional Seminar & Project.....7 credits

- EME691N Professional Seminar in Mathematics I, Initial Level 2
- ESE691 Professional Seminar I in General Science Education 2
- Includes clinical journal, assessments, professional growth plan.
- ESM800 Independent Learning Project 3

Initial Licensure Courses

Science Content..... choose 4 credits

Online courses offered in collaboration with the Jason Academy.
One course required from each group of courses below.

Physical Sciences

- SCI603 Electricity & Magnetism 1
- SCI609 Transfer of Energy 1
- SCI615 Forces & Motion 1

Earth Sciences

- SCI607 Structure of the Earth 1
- SCI613 Earth in the Solar System 1
- SCI617 Earth's History 1

Life Sciences

- SCI601 Aquatic Ecology 1
- SCI611 Ocean Science 1

Science Methodology9 credits

- SCI682 Methods & Materials for Teaching Life Science 3
- SCI684 Methods & Materials for Teaching Earth Science 3
- SCI686 Methods & Materials for Teaching Physical Science. 3

Mathematics 18 credits

- MAT623 Numerical & Geometric Structures 3
- MAT607 College Algebra 3
- MAT609 Euclidian Geometry 3
- MAT611 Calculus I 3
- MAT613 Discrete Mathematics 3
- MAT615 History of Mathematics 3

Practicum5 credits

Prerequisites

- Pass all teacher tests required by your state for this license.
Massachusetts: Communication & Literacy and Middle School Mathematics/Science (MTEL).
- Pre-Practicum — 75 hours 0
- Pass all required courses.

ESM790M Practicum in Mathematics (5-8) — 150 hours 1.5

ESM790S Practicum in Science (5-8) — 150 hours 1.5

Home state site under mathematics and science teachers with the appropriate licenses, under Cambridge College supervision.

ESM791 Practicum Seminar 2

- Exit Performance Portfolio required for credit.

Course Offerings Plan

EVERY TERM

- EME691N Professional Seminar in Math I, Initial Level
- ESE691 Professional Seminar I in General Science Education
- Take Communication & Literacy test (MTEL) first term
- Online science courses** — two five-week periods each term; selected courses offered each period.
- ESM800 Independent Learning Projectwith Seminar II

SUMMER With the National Institute for Teaching Excellence

- MAT623 Numerical & Geometric Structures
- MAT607 College Algebra
- SCI682 Meth. & Mat. for Life Science
- SCI684 Meth. & Mat. for Earth Science
- SCI686 Meth. & Mat. for Physical Science

FALL

- MAT609 Euclidean Geometry
- MAT611 Calculus I preqs. MAT609
- MAT615 History of Math. preqs. MAT607, 609 & 611
- SCI686 Meth. & Mat. for Physical Science.in Burlington, MA
- ESM790M, 790S Practicum **and** ESM791 Practicum Seminar

SPRING

- MAT611 Calculus I preq. MAT609
- MAT613 Discrete Math preq. MAT609
- MAT615 History of Math. preqs. MAT609 & 611
- SCI682 Meth. & Mat. for Life Sciencein Burlington, MA
- SCI684 Meth. & Mat. for Earth Sciencein Burlington, MA
- ESM790M, 790S Practicum **and** ESM791 Practicum Seminar

All courses meet for 35 contact hours/3 credits.

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 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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Cambridge
College