



Master of Education Leading to Massachusetts INITIAL LICENSURE

## General Science (1-6 or 5-8)

For licensure: 35 credits, 5-6 terms • non-licensure concentration in Science Education: 32 credits, 3 terms

• Program approved by the Mass. Dept. of Elementary & Secondary Education

### Professional Seminar & Project.....7 credits

ESE691-692 Professional Seminar in General Science Education (2 terms @ 2 credits) . . . . . start in first term  
Includes clinical journal, assessments, professional growth plan.  
Take Communication & Literacy test . . . . . first term  
SCI800 Independent Learning Project (3 credits) . . . with Seminar II

### Science Methods .....15 credits... 12 credits

Licensure courses @ 3 credits each **grades 1-6** **grades 5-8**

MAT623 Numerical & Geometric Structures . . . •  
SCI680 Attaining Science Literacy . . . . . •

**option for 1-6:** SCI680 or ELE653 Teaching Sci & Technol in Early Childhood & Elem Curric

#### Methods & Materials for Teaching:

SCI682 Life Science . . . . . •  
SCI684 Earth Science . . . . . •  
SCI686 Physical Science . . . . . •

### Science Content.....8 credits.....11 credits

Online courses @ 1 credit each **grades 1-6** **grades 5-8**

SCI591 Intro to Online Science Learning . . . . . •  
SCI601 Aquatic Ecology . . . . . •  
SCI603 Electricity & Magnetism . . . . . •  
SCI605 Water Quality . . . . . •  
SCI607 Structure of the Earth . . . . . •  
SCI609 Transfer of Energy . . . . . •  
SCI611 Ocean Science . . . . . •  
SCI613 Earth in the Solar System . . . . . •  
SCI615 Forces & Motion . . . . . •  
SCI617 Earth's History . . . . . •  
SCI619 Teaching Project-Based Science . . . . . •

In-class course option @ 3 credits (replaces three 1-credit courses)

SCI688 Methods & Materials for Teaching Middle School Chemistry . . . . . •

### Non-licensure option

All program components required except Practicum, Practicum Seminar, and teacher tests. Two more credits, chosen in consultation with program coordinator, will bring program total to 32 credits. Non-licensure students must complete all course contact hours and pre-practicum hours embedded in the courses. Additional graduate level science content electives may be available. MAT623 may be replaced with science content electives.

**Out of State Educator Licensure Programs:** Cambridge College has temporarily suspended new enrollment in out of state licensure programs while pursuing national accreditation through the Teacher Education Accreditation Council (TEAC), except for Puerto Rico which continues to accept new enrollment in its certificate program with limited jurisdiction to Puerto Rico.

### Practicum (licensure students only).....5 credits

#### Prerequisites

- Pass all teacher tests required by the state for this license. Massachusetts: Communication & Literacy test and:  
**1-6:** Competency Review or General Science 5-8  
**5-8:** General Science 5-8
- Pre-Practicum — 75 hours . . . . . 0
- Pass all required courses.

**SCI790 Practicum** – 300 hrs in an elementary (1-6) or middle school (5-8) science classroom . . . . . 3

Guided and evaluated by a licensed/certified general science teacher in the classroom and by a licensed/certified Cambridge College supervisor. Practicum locations are subject to state regulations and are to be approved by the program coordinator or regional center director.

SCI790A Practicum 1-6 • SCI790B Practicum 5-8

**SCI791 Practicum Seminar** in General Science. . . . . 2

- Exit Performance Portfolio required for credit.

### COURSE OFFERINGS PLAN

Professional Seminar and Independent Learning Project . . every term  
ELE653 Teaching Science & Technology . . . . . every term  
SCI680 Attaining Science Literacy . . . . . Fall, Summer  
SCI686 Meth. & Mat. for Physical Science . . . . . Fall, Summer  
SCI682 Meth. & Mat. for Life Science . . . . . Spring, Summer  
SCI684 Meth. & Mat. for Earth Science . . . . . Spring, Summer  
MAT623 Numerical & Geometric Structures . . . . . Spring, Summer  
SCI688 Meth. & Mat. for Middle School Chem . . . . . Summer  
SCI79-791 Practicum and Practicum Seminar . . . . . Fall, Spring

**Course offerings plan for Cambridge**, subject to change without notice. Regional centers set their own schedules but offer the same program of study.

#### Students are responsible for:

- Checking with the appropriate state licensure entity to determine whether this program is accepted for licensure in their state.
- Discussing options for licensure practicum with the program coordinator or regional center director.

**Admission requirements:** Bachelor's degree and other general requirements.

**Program subject to change:** As Massachusetts or other requirements for programs and licensure change, the College reserves the right to alter the program.

### Cambridge College School of Education

80 Prospect Street • Admissions & main offices at 1000 Massachusetts Avenue  
Cambridge, MA 02138 • 617-868-1000 • www.cambridgecollege.edu

