Graduate Admissions

Science Education

Master of Science in Education

This program leads to a master's degree in Science Education. Upon completion of additional requirements, candidates will be eligible to receive New York State Initial Certification to teach one or more of the following sciences to learners from Grades 7-12: Biology, Chemistry, Earth Science, General Science, and Physics.

ADMISSIONS REQUIREMENTS

- Official transcripts from **all** post-secondary institutions attended
  - Have attained a bachelor's degree (or its equivalent) from an accredited college or university
  - Have attained an overall of 3.0 or better. Above average achievement in academic work and in the teaching specialization required
- Submit two letters of recommendation, at least one of which is from a college or university science instructor
- A 500-word essay outlining intellectual and academic interests, accomplishments, and career objectives
- **For Sequence 1 Admission:** An undergraduate science major or the equivalent and a minor in middle and high school education or the equivalent
- **For Sequence 2 and 3 Admission:** At least 36 credits in biology, chemistry, geology, or physics. Matriculates may be asked to complete undergraduate and/or graduate prerequisite coursework in addition to degree requirements, based on the evaluation of their credentials by an adviser in the Science Education Program
- Personal interview
- Satisfy appropriate voice, speech, and health standards

To be eligible for the Science Education Master's Program, potential students must fall into one of the following categories:

- **Sequence 1 (33-36 credits):**
  - For candidates who have or are eligible for Initial Certification in subjects other than science and who seek certification as science teachers
- **Sequence 2 (39-48 credits):**
  - For candidates who have completed at least 36 credits in Biology, Chemistry, Geology, or Physics, but who lack professional education coursework and who seek Initial Certification
- **Sequence 3 (31-33 credits):**
  - For candidates who hold a valid Transitional B certificate in Biology, Chemistry, Earth Science, General Science, or Physics, grades 7-12, from New York State

DEGREE REQUIREMENTS

Students must consult with an advisor in the Science Education Program before starting their master's program. During their first semester, matriculated students are required to plan their graduate program with an advisor in the Science Education Program. Students must complete one of the three sequences outlined below:

Curriculum

The curriculum for each sequence is distributed into four instructional modules as follows:

Core Education for Sequence 1 (3-6 credits)		**Credits**
ESC 529	Language and Literacies Acquisition in Secondary Education	3

*Based on the Program Coordinator's assessment of prior experience and qualification, candidates may also be required to take ESC 519 (3).

Core Education for Sequences 2 and 3 (20-22 credits)		**Credits**
ESC 501	Psychological Foundations of Education	3
ESC 502	Historical Foundations of Education: A Multicultural Perspective	3
ESC 519	Teaching Science in Middle and High School	3
ESC 529*	Language and Literacies Acquisition in Secondary Education	3
ESC 595*	Internship in Classroom Teaching	1-3
	OR	
ESC 596*	Student Teaching in the Middle and High School Grades	3
ESC 611**	Teaching Internship Seminar in Secondary Education	1
ESC 612**	Seminar in Secondary Student Teaching	3

(*) For Sequence 2 only

(**) For Sequence 3 only

Curriculum and Instruction for Sequences 1, 2, and 3 (9-12 credits)		**Credits**
ESC 722	Teaching Communication Skills in the Content Areas	3
ESC 755	Teaching the Historical Development of Science	3
ESC 767	The Museum as a Resource for Teaching Science	3
ESC 770*	Methods of Teaching Science in Secondary Schools: Selected Topics	3

(*) The requirement for ESC 770 does not apply to students in Sequence 3

Research and Culmination Project for Sequences 1, 2, and 3 (6 credits)		**Credits**
ESC 705	Methods of Educational Research	3
ESC 706	Project Seminar I	1
ESC 707	Project Seminar II	2

Science Content for Sequences 1, 2 and 3

*Science content course requirements must align with undergraduate science preparation and with intended certification subject area. Consult with an advisor in the Science Education Program for the appropriate course(s) to satisfy this requirement.

Questions about the program?

Prof. Wesley Pitts
wesley.pitts@lehman.cuny.edu

Prof. Sunyata Smith
sunyata.smith@lehman.cuny.edu

Questions about admissions?

The Office of Graduate Admissions
http://www.lehman.edu/admissions