



## Mathematics Education

### Master of Science in Education

#### Grades 7-12

The graduate program for middle and high school mathematics education leads to a Master of Science in Education degree. Registered with the State Education Department, this program leads to both Initial and Professional Certification for graduate candidates seeking to teach mathematics in grades 7 – 12, provided all other requirements have been satisfied.

#### ADMISSIONS REQUIREMENTS

- Official transcripts from **all** post-secondary institutions attended
  - Have attained a bachelor's degree or its foreign equivalent from an accredited college or university
  - Have attained a minimum undergraduate grade point average of 3.0
- **For Sequence 3:** Mathematics coursework to include:
  - Statistics, Calculus I, Calculus II, Linear Algebra, and history of Mathematics
  - An overall undergraduate grade point average of 3.0 or better in all Mathematics courses taken
- **For Sequence 4:** Mathematics major
- **For Sequence 5:** Mathematics major and N.Y.S. Transitional B Certificate
- Two letters of recommendation
  - At least one of which is from a college or university instructor of Mathematics
- A 500-word essay outlining intellectual and academic interests, accomplishments, and career objectives
- A personal Interview
- If conditionally admitted, make up requirements starting in the first semester and finishing in no more than three consecutive semesters

*Note: Consult with program coordinator to plan courses and receive course approvals prior to or during registration each semester.*

**To be eligible for the Master's in Mathematics Education for Grades 7 – 12, candidates must fall into one of the following categories:**

- **Sequence 3 (42-48 credits):**
  - For liberal arts and sciences graduates who do not hold a bachelor's degree in Mathematics but have completed 15 credits in mathematics, including Statistics, Calculus I, Calculus II, Linear Algebra, and History of Mathematics, and lack professional education coursework
- **Sequence 4 (36-42 credits):**
  - For candidates who hold a bachelor's degree in Mathematics only, but lack professional education coursework
- **Sequence 5 (35-38 credits):**
  - For teachers who hold a bachelor's degree in Mathematics and a Transitional B Certificate in Mathematics from New York State through special CUNY and N.Y.C.D.O.E. programs

## DEGREE REQUIREMENTS FOR GRADES 7-12

Complete one of the two sequences outlined below and maintain a minimum B average

### Sequence 3, 4 and 5

#### Core Education Courses (17-18 credits)

		<b>Credits</b>
ESC 501	Psychological Foundations of Education	3 credits
ESC 502	Historical Foundations of Education: A Multicultural Perspective	3 credits
ESC 532	Teaching Mathematics in Middle and High School	3 credits
ESC 506	Special Needs Education in Secondary Settings	3 credits
ESC 595	Internship in Mathematics	2 credits
<b>OR</b>		
ESC 596	Student Teaching in the Middle and High School grade	3 credits
<b>AND</b>		
ESC 612	Seminar in Secondary Student Teaching	3 credits

#### Pedagogical Core in Mathematics Education (12 credits)

		<b>Credits</b>
ESC 740	Project Seminar in Curriculum, Materials, and Assessment in Specialized Areas	3 credits
ESC 742	Internship in Classroom Teaching	3 credits
ESC 748	Student Teaching in the Middle and High School Grades	3 credits
ESC 749	Teaching Mathematics in Grades 11 and 12	3 credits

#### Culminating Experience (0-3 credits)

		<b>Credits</b>
ESC 706	Research in Problems of Teaching a Specialized Subject	1 credit
ESC707	Project Seminar	2 credits
<b>OR</b>		
	Comprehensive Examination	0

### Sequence 3 only

#### Mathematics (15 credits)

		<b>Credits</b>
MAT 601	Secondary Mathematics from an Advanced Standpoint	3 credits
MAT 604	Application of the Real and Complex Number System	3 credits
MAT 637	Topics in Discrete Mathematics	4 credits
MAT 655	Exploring Mathematics Using Technology	2 credits
MAT 615	Modern Algebra	3 credits

### Sequence 4 and 5

#### Mathematics (9 credits)

Three graduate electives in Mathematics chosen in consultation with a Program Advisor

#### Questions about the program?

Prof. Celia Cruz

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Prof. Rabab Abi-Hanna

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#### Questions about admissions?

The Office of Graduate Admissions

<http://www.lehman.edu/admissions>