Queens College
Secondary Education & Youth Services (SEYS) | Master of Arts in Teaching Mathematics

SEYS advisors:
Dr. Theresa Gurl 718.997.5063 Theresa.Gurl@qc.cuny.edu
Dr. Alice Artzt 718.997.5169 Alice.Artzt@qc.cuny.edu

The Master of Arts in Teaching (MAT) in Mathematics Education is a combined 43-credit master's program, the first part of which leads to initial certification to teach mathematics in grades 7-12 in New York State, and the second part of which leads to professional certification.

This program is designed for candidates who have completed an undergraduate major in Mathematics or a minimum of 36 credits in college-level mathematics courses including Multivariable Calculus, Linear Algebra, and Probability & Statistics. **However**, if students have already completed a minimum of 21 credits in college-level mathematics including courses in Multivariable Calculus, Linear Algebra, and Probability & Statistics with a minimum GPA of 3.0, they are eligible to complete the remaining 15 mathematics credits while enrolled in the first part of the program.

Note that ALL students, regardless of the number of credits of mathematics they have taken, must take Math 585 during the initial certification portion of the program. **Note**: This course meets on Tuesdays and Thursdays from 11:00am-2:00pm during the spring semester prior to taking SEYS 561.

A minimum overall undergraduate GPA of 3.0 and mathematics GPA of 3.0 are required to enter and remain in the program. Candidates who do not meet this requirement may sometimes be permitted to enter as probationary matriculants. Probationary status will be removed when the first 12 credits of approved course work have been completed with a minimum average of B (3.0).

In addition to the general requirements for admission, a candidate must have two letters of recommendation to be admitted.

Please note that the only way to register for education courses is to email the SEYS department at seys@qc.cuny.edu from your QC email address.

Coursework for Part 1 of Program—Leads to Initial Certification:

Course Number	**Course Title**	**Pre-requisites**	**Co-requisites**	**Credits**	**Fieldwork Requirement/ Notes**	**✓Check when completed**
SEYS 536 (Fall or Spring)	Educational Foundations	Matriculation in program		3	30 hours of Fieldwork	
SEYS 700 (Fall or Spring)	Language, Literacy, and Culture in Education	Matriculation in program		3	30 hours of Fieldwork	
ECPSE 550 (Fall or Spring)	Foundations of Special Education	Matriculation in program		3	15 hours of Fieldwork	

Math 585 (Spring only)	Mathematical Foundations of the Secondary School Curriculum	Matriculation in program		4	See note in paragraph 3 above/Candidates must be listed as being in AC program during this semester	
SEYS 552 (Fall only)	Educational Psychology	Matriculation in program	SEYS 561, 571.2	3	30 hours of Fieldwork	
SEYS 561 (Fall only)	Methods of Teaching Mathematics in Middle and High School	SEYS 536, 700; Grade of B or better in Math 585	SEYS 552, 571.2	3	30 hours of Fieldwork	
SEYS 571.2 (Fall only)	Initial Clinical Experience in Mathematics for Secondary School	SEYS 536, 700; Grade of B or better in Math 585	SEYS 552, 561	3	100 hours of clinical practice (4 days per week in middle or high school)	
SEYS 581 (Spring only)	Standards-Based Curriculum and Assessment in Teaching Mathematics	SEYS 571.2, 561 with a grade of B or better	SEYS 571.4	3		
SEYS 571.4 (Spring only)	Student Teaching in Mathematics for Secondary School	SEYS 571.2, 561 with a grade of B or better	SEYS 581	3	15 weeks, 5 days per week, in middle or high school	

***Additional Requirements for Initial Certification (Exams and Workshops)*:**
After completing Part 1 program coursework *and* the requirements below, you will be eligible to apply for initial certification to begin teaching in New York State.

State Requirements	**Exam or Workshop**	**Notes**	**✓Check when completed**
Content Specialty Test in Mathematics (CST)	Exam	Go to NYSTCE website for test info: www.nystce.nesinc.com. Take after completion of Math 585	
Educating All Students (EAS)	Exam	Go to NYSTCE website for test info: www.nystce.nesinc.com. Take upon completion of Math 585 and ECPSE 550	

Child Abuse Identification workshop	Workshop	Suggested before or during SEYS 561	
School Violence Prevention and Intervention workshop	Workshop	Suggested before or during SEYS 561	
Dignity for All Students Act (DASA)	Workshop	Suggested before or during SEYS 561	
Fingerprinting Requirement		To be completed early in the program and **no later than** the semester in which you take Math 585 All candidates in teacher preparation programs **must** be fingerprinted by **NYC Public Schools** (this is different from NYS fingerprinting). Students already fingerprinted by NYC Public Schools will need to connect their record to Queens College. Steps to complete this requirement can be found on the School of Education fingerprinting information website: https://www.qc.cuny.edu/academics/se/fingerprinting-policies-procedures/	

- For more information about state certification, please visit: https://www.qc.cuny.edu/academics/se/teacher-certification-office/
- For information on required workshops, visit: https://www.qc.cuny.edu/academics/se/teacher-certification-office/

The three math courses below can be taken during EITHER portion of the program but must be completed to earn professional certification. These credits may not count towards the 36 credits in mathematics required of all candidates.

Course Number	Title	Credits	Check when completed
Math 509	Set Theory and Logic	3	
Math 505	Problem Solving	3	
Math 524	History of Mathematics	3	

Coursework for Part 2 of Program—Leads to Professional Certification:
The courses below may ONLY be taken after all coursework from Part 1 of the program is complete.

Course Number	Title	Credits	Check when completed
SEYS 775 (Fall only)	Seminar in Research in Mathematics education	3	
SEYS 751 (Spring only)	Mathematics in the Secondary School	3	