Queens College
Post-Baccalaureate Initial Certificate Program
Mathematics

Powdermaker Hall 150   718-997-5150

SEYS ADVISORS: **Dr. Alice Artzt**   718-997-5169   Alice.Artzt@qc.cuny.edu
                                 Dr. Theresa Gurl   718-997-5063   Theresa.Gurl@qc.cuny.edu
                                 Dr. Mara Markinson   718-997-5155   Mara.Markinson@qc.cuny.edu

This program consists of 21 credits in education that includes fieldwork and student teaching, as well as 3 credits in special education. A minimum overall GPA of 3.0 and mathematics GPA of 3.0 are required to enter and remain in the program. (To enter the program candidates must have completed an undergraduate program in which they majored in mathematics or have taken a minimum of 21 credits in college-level mathematics, including multivariable calculus, linear algebra and probability and statistics. They must also have completed the GRE exam.)

Coursework for Initial Certificate Program

Course	Title	Credits	Comments	Semester to take
SEYS 536	Educational Foundations	3	**30 hours fieldwork**	Spring
SEYS 700	Language, Literacy, and Culture in Education	3	**30 hours fieldwork** Pre-req. or co-req. SEYS 536	Spring
ECPSE 550	Foundations of Special Education	3	**15 hours fieldwork**	Spring
SEYS 552*	Educational Psychology	3	Prereqs. 536 & 700 Co-req. SEYS 571.2 & 561	Fall
SEYS 571.2** [course number may change]	Initial Clinical Experience in Mathematics	3	**100 hours of clinical practice** (4 days per week) in middle or high school Prereqs. 536 & 700	Fall
SEYS 561***	Seminar in the Teaching of Mathematics in Middle and High School	3	**25 hours fieldwork in middle or high School**; Prereqs. 536 & 700 Math 385W Co-req. SEYS 552	Fall
SEYS 571.4**** [course number may change]	Student Teaching in Mathematics for Middle and High School	3	**15 weeks, 5 days per week, 6 periods per day, in high or middle school;** Prereqs. SEYS 571.2, 561 Co-req. SEYS 581	Spring
SEYS 581	Standards-Based Curriculum and Assessment in Teaching Mathematics	3	Prereqs. SEYS 571.2, 561 Co-req. SEYS 571.4	Spring

Updated 2.1.21

*When SEYS 552 is taken as a co-requisite with SEYS 571.2, candidates are not required to do extra hours of fieldwork. However, the Educational Psychology tasks are to be completed in the field, independent of ICE.

**Prior to SEYS 571.2 candidates must have accumulated 100 hours of fieldwork. Please consult advisor regarding ways to accomplish this beyond the fieldwork hours required in SEYS courses.

***Candidates must earn a minimum grade of B to progress to SEYS 371.4.
*** Prior to taking SEYS 561 candidates must take Math 385W and earn a minimum grade of B.

****To be recommended for certification, students must have earned a minimum grade of B in SEYS 571.4.

Requirements for Matriculation into Initial Certificate Program in Mathematics--#849
These requirements are in addition to the general requirements for admission. To be admitted to the program a candidate must have:

1. A cumulative index and Mathematics index of at least B are required for matriculated status. Students who do not meet the above requirements 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.

- At least 21 credits in college-level mathematics courses. These courses must include intermediate calculus, linear algebra, and probability and statistics with an average of at least B. Note that before taking the mathematics courses that go toward the Master's Degree, students must have the equivalent of a mathematics major or a total of 36 credits in college-level mathematics. Recommendations are given for specific coursework to mirror the undergraduate mathematics major for secondary education minors at Queens College.

2. Two letters of recommendation.

3. The GRE examination

Math 151	Calculus and Analytic Geometry (three years of high school mathematics including intermediate algebra and trigonometry, or Precalculus (Math 122)	4
Math 152	Calculus (Math 151)	4
	Students may take the equivalent of Math 151, 152 with Math 141, 142, 143: 9 credits	
Math 201	Multivariable Calculus	4

Updated 2.1.21

	(Math 143 or Math 152)	
Math 231 or 237	Linear Algebra or Honors Linear Algebra (one semester of calculus or permission of Chair)	4
Math 241	Probability and Statistics (a one-year course in differential and integral calculus including improper integrals)	3

	Prior to taking SEYS 561 ALL Candidates Must take Math 385W and earn a minimum grade of B.	
Math 385 (Spring only)	High School Math from an Advanced Standpoint (prereqs Math 201, Math 231)	4
	Candidates who were not mathematics majors and need extra mathematics courses for the 36 credit requirement might consider selecting from the following courses in mathematics.	
Math 220	Discrete Mathematics	3
Math 242	Statistics	3
Math 333 or 613	Introduction to Algebraic Structures	3
Math 245	Mathematical Modeling	3
Math 223	Differential Equations	
Math 518 or 618	College Geometry or Foundations of Geometry	
Math 550.3	Variable Topics	
Math 505	Introduction to Mathematical Problem Solving	3
Math 524	History of Mathematics	

Updated 2.1.21