

Queens College
Department of Secondary Education and Youth Services
Master of Arts in Teaching
MAT in Science Adolescent Education, Grades 7-12 Program Code: ASE 7-12-MAT

SEYS Advisors:

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Program of Study

The program of study is a combination of graduate level coursework in secondary education, science content, pedagogical science content knowledge, and clinical experiences at local area schools. The intent of the program is to graduate students who have a strong base of science content knowledge and solid pedagogical content knowledge based in research, theory, and practice.

The Master of Arts in Teaching (MAT) in Science & Technology Education is a combined 42-credit master's program, the first part of which leads to initial certification to teach science 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 biology, chemistry, geosciences or physics. **However**, if students have already completed a minimum of 30 credits in college-level science courses in one science discipline with a minimum GPA of 3.0, they are eligible to apply to the MAT program.

Note that ALL students, regardless of the number of credits in science they have taken, must take an additional 9 credits minimum in graduate level science courses

A minimum overall undergraduate GPA of 3.0 and science 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. GRE is not required.

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.

Course No. and Title	Pre-requisites and Co-requisites	Credits	Semester Completed
<i>Pedagogical Core</i>			
SEYS 536 – Educational Foundations (Spring/Fall) Students must complete 30 hours of fieldwork in a secondary school.	Matriculation in program	3	
SEYS 552 – Educational Psychology (Fall) Students must complete 30 hours of fieldwork in a secondary school.	Matriculation in program	3	
ECPSE 550 – Foundations in Special Education (Spring/Fall) Students must complete 15 hours of fieldwork in a secondary school.	Matriculation in program	3	

SEYS 700 – Language, Literacy, and Culture in Education (Spring/Fall) Students must complete 30 hours of fieldwork in a secondary school.	Matriculation in program	3	
Science Education Pedagogical Content Courses			
SEYS 562 – Seminar in Teaching Science (Spring Only) Students must complete 30 hours of fieldwork in a secondary school. This course must be taken prior to starting Student Teaching (SEYS 572.2) Minimum grade of B is required for Student Teaching I.	Matriculation in program	3	
SEYS 582 – Standards-Based Curriculum and Assessment in Teaching Science (Fall Only)	Co-requisite: SEYS 572.2	3	
Clinically-rich Student Teaching Program			
SEYS 572.2* –Student Teaching I (Fall Only) 1. All students are required to complete 100+ hours of field work prior to Student Teaching I. 2.Submission of Content Specialty Test scores is required prior to Student Teaching I. (In potential area of initial certification) 3. Candidates must also register for Content and Pedagogical Content Seminar for each semester of student teaching. 4. Student teaching is 5 days a week.	Pre-requisite: SEYS 552, 536, 700, CST** Pre or Co-requisite: SEYS 552 Co-requisite: SEYS 582	3	
SEYS 572.4* – Student Teaching II (Spring Only) (In potential area of initial certification) Student teaching is 5 days a week.	Pre-requisite: SEYS 572.2, 582	3	
Professional Science Education Courses (Advanced Study)			
Science Education Pedagogical Content Courses			
SEYS 753 –Computer Applications in Science Education (Spring Only) Students must have Initial Certificate or program director's permission.		3	
OR SEYS 754 – Advanced Curriculum Study in Science (Spring Only) Students must have Initial Certificate or program director's permission.		3	
SEYS 777 – Research in Science & Technology Education I (Fall Only)	Pre-requisite: All coursework for Initial certification	3	
SEYS 778 – Research in Science & Technology Education II (Spring Only)	Pre-requisites: SEYS 777* and approved research proposal.	3	

Graduate Studies in Science

This refers to coursework in Biology, Chemistry, Geology and/or Physics. At least 9 credits have to be taken in science content courses. Courses must be selected from the 500-700 level with the approval of the advisor.

Course No. and Title		Pre-requisites and Co-requisites	Credit	Semester Taken
Geology 552**	GLOBE Environmental Science Research Course		3	
It is noted that students must accumulate through their undergraduate and graduate work a minimum total of 36 credits in science with a <u>minimum</u> of 30 of those credits in their specialist discipline (i.e., biology, chemistry, earth science, physics) to satisfy the New York State requirement for certification in the specialty area. * Additional science classes must be approved by your advisor and will be selected based on any areas where deficiency in your educational preparation is identified. ** All MAT students are required to take Geology 552. Total number of credits required = 42 (minimum)				

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 (CST)	Exam	Go to NYSTCE website for test info: www.nystce.nesinc.com . Take after completion of 30 credits in certification area.	
Educating All Students (EAS)	Exam	Go to NYSTCE website for test info: www.nystce.nesinc.com . Take upon completion of ECPSE 550	
Child Abuse Identification workshop	Workshop	Suggested before or during SEYS 562	
School Violence Prevention and Intervention workshop	Workshop	Suggested before or during SEYS 562	
Dignity for All Students Act (DASA)	Workshop	Suggested before or during SEYS 562	
Fingerprinting Requirement		To be completed early in the program and no later than the semester in which you take SEYS 562. 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/			