

# Queens College

## Secondary Education and Youth Services (SEYS)

### MSED in Teaching Mathematics and Computer Science

Powdermaker Hall 150

718-997-5150

[www.qc.cuny.edu/SEYS](http://www.qc.cuny.edu/SEYS)

**PLEASE CHECK WITH ADVISOR FOR UPDATES TO THE PROGRAM.**

Mathematics Education Advisor: Dr. A. Artzt 718-997-5169 [qcartzt@gmail.com](mailto:qcartzt@gmail.com)

Computer Science Advisor: Dr. Z. Xiang 718-997-3566 [zxiang@qc.cuny.edu](mailto:zxiang@qc.cuny.edu)

#### Program Admission Requirements:

- A bachelor's degree in mathematics and in secondary mathematics education from an accredited college or university;
- At least a **3.0** cumulative grade point average in mathematics and secondary education courses;
- New York State Initial Certificate in Mathematics, Grades (7-12);
- A beginning course in Java or C++

#### Program Course Requirements:

The program consists of 33 credits: 15 credits in Mathematics/Computer Science Education and 18 credits in Computer Science.

#### Graduate studies in Mathematics/Computer Science Education

Course Number	Title	Credits	Date Taken
SEYS 701-708 (Select one not 706)	<b>Educational Foundations:</b> Social, cultural, historical, and philosophical	3	
SEYS 709-710, 717-719, 768 (Select one)	<b>Educational Psychology</b>	3	
SEYS 751	<b>Curriculum/Methods Course in Secondary Mathematics Education</b> (Taken before SEYS 775)	3	(spring only)
SEYS 775	<b>Research in Mathematics Education I</b> Prereq. SEYS 751	3	(fall only)
SEYS 776	<b>Research in Mathematics Education II</b> Prereq. SEYS 775	3	(spring only)

**SEYS 775 should only be taken after a minimum of 20 credits have been taken in the program.**

#### Graduate studies in Computer Science

Course Number	Title	Credits	Date Taken
CSCI 611	<b>Advanced Programming in C++</b> (Prereq: CSCI 111 or 112)	3 (2 hr. lec. 2 hr. lab)	
CSCI 612	<b>Advanced Programming in Java</b> (Prereq: CSCI 111 or 112)	3 (2 hr. lec. 2 hr. lab)	
CSCI 613	<b>Data Structures</b> (Prereq: CSCI 611, 612, and 620)	3	
CSCI 620	<b>Discrete Structures</b> (Prereq: CSCI 111 or 112; Math 120 or 220; and Math 141 or 151)	3	
CSCI 640	<b>Computer Organization and Assembly Language</b> (Prereq.: CSCI 111 or 112)	3	
CSCI 655	<b>Internet and Web Technologies</b> (Prereq.: CSCI 613)	3	

See description and schedule of CSCI coursework at <http://www.cs.qc.cuny.edu/>