



THE CITY COLLEGE

of

The City University of New York

138th Street & Convent Avenue

New York, New York 10031

School of Education

M.S. IN EDUCATION – MIDDLE SCHOOL MATHEMATICS GRADES 5-9

INITIAL CERTIFICATE PROGRAM in Middle School Mathematics Education 5-9

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This program is intended for candidates who have completed a minimum of 15 semester hours of mathematics (including Calculus I), but lack the education core for New York State Teacher Certification in Middle School Mathematics. The program leads to initial NYS certification to teach as a mathematics specialist in New York State middle schools (grades 5-9).*

NAME:

Matriculation

SS#:

Date:

Matriculation Conditions

- A. Official Transcript and statement of graduation from _____ must be on file by _____.
- B. Education/Mathematics _____
- C. Other: _____

Advanced Standing (transfer) (maximum 6 Credits)

COURSE #	Description	Credits	Term Taken	GRADE

All students must take the following courses (25 credits)

COURSE #	Description	Credits	Term Taken	Grade
EDUC 7500A	Adolescent Learning & Development	3		
SPED 5000K	Intro to Inclusive Education	3		
EDSE 7600A	Issues for Secondary School Teachers: Special Ed., Second Language Acquisition, and Literacy	2	FA	
EDSE 1201E	Middle School Literacy	4	SP	
EDSE 6100E	Teaching Mathematics in Secondary Schools	4	FA	
EDSE 6400E	Curriculum Development in Secondary School Mathematics	4	SP	
EDSE 7600G	Teaching Practicum in the Secondary School*	3		
EDSE 7603G	Seminar in Teaching Secondary School*	2		
EDUC 1900G	Child Abuse & Health Seminar*	0		

*EDSE 7600G, EDSE 7603G and EDUC 1900G have to be taken concurrently during the last semester of the program and only after applying for permission and demonstrating proficiency in the content area by having a passing score on the CST State Examination

Required Mathematics Core (15 credits)

COURSE #	Description	Credits	Term Taken	Grade
MATHE 4600C	Introduction to Mathematical Thinking	3		
MATHE 4700C	Modeling with Algebraic and Trig. Functions	3		
MATHE 4800C	Foundations of Geometry	3		
MATHE 4900C	Fundamental Ideas of Calculus	3		
MATHE 1000E	History of Mathematics	3		

GRADUATE PROGRAM OF STUDY

INITIAL CERTIFICATE PROGRAM in Mathematics Education (5-9)

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Under advisement, choose one content or content-pedagogy linked courses if a replacement is needed*.

Possible selections are listed below. Please check with your advisor before selecting courses.

Number of MATHE credits required _____

COURSE #	Description	Credits	Term Taken	GRADE
	<u>Mathematics Education</u>			
EDSE 2700E	Middle and Early High School Mathematics: Teaching Developmentally	3		
EDSE 6200E	Teaching Problem Solving Strategies in Mathematics	3		
EDSE 6300E	Enriching the Teaching of Mathematics	3		
EDSE 6600E	Strategies for Using Computers in the Mathematics Classroom	3		
	<u>Other Mathematics or Mathematics Education Courses Approved by Advisor</u>			
MATHE 5000C	Data Analysis, Probability and Statistics	3		

Education Research Requirements (3-4 credits)

EDUC 7000I And EDUC 7100I	Introduction to Educational Research And Independent Study and Research in Mathematics	2 2	SP FA	
OR				
EDSE 7200I	Master's Project (Admission by the Permission of the Instructor)	3		

Total Credits 43-44

- All students must maintain a minimum GPA of 3.0 at all times in the program. **Students whose grade point average is less than 3.0 at the completion of the above program will be required to pass a Comprehensive Qualifying Examination.**
 - All students must demonstrate understanding of the following areas: algebra, geometry, number theory, discrete mathematics, probability and statistics, calculus, mathematical logic and proof, problem solving, mathematical communication, connections and applications of mathematics, research based instructional and assessment strategies, the use of technology in the mathematics classroom, the ability to meet the needs of diverse learners, and the ability to teach problem solving, prior to graduation from the program. Candidates may demonstrate this knowledge base by completing coursework at the undergraduate or graduate level in the content or education area, or in the presentation of a portfolio of work demonstrating the attainment of this knowledge base.
 - Students must submit scores from the New York State Teachers Exams.
 - Students must complete an electronic portfolio prior to graduation.
- * If a student enters the program with some experience in education (that is, the student has already completed some courses as part of a different program), the student may choose a replacement course to complete the required number of credits.