

LEHMAN COLLEGE
OF THE
CITY UNIVERSITY OF NEW YORK

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

CURRICULUM CHANGE

Hegis # 1701.01
Program Code 02652

1. **Type of Change:** M.A. Degree Requirements
2. **From:** Master of Arts Program [for Secondary School Teachers of] Mathematics

The Department of Mathematics and Computer Science offers courses designed to meet the needs of students [in the Program for Secondary School Teachers of Mathematics.]

Admission Requirements

- Bachelor's degree (or its equivalent) from an accredited college or university.
- Demonstrate the ability to successfully pursue graduate study. (Above-average academic achievement in general and in the teaching specialization is required.)
- Have completed [the appropriate number of credits in approved courses in the relevant academic specialization, plus 12 credits in secondary education courses and one semester of student teaching (or its equivalent).]
- [Satisfy appropriate voice, speech, and health standards.]
- [If conditionally admitted, make up not more than 12 credits of specified undergraduate coursework, starting in the first semester and finishing in no more than three consecutive semesters.]
- Two letters of recommendation.

Degree Requirements

[Students in this program are required to complete from 21 to 24 credits in mathematics, as well as 6 to 9 credits in middle and high school education. Candidates for the degree are required to pass a comprehensive examination based on four courses, including at least one course each in algebra, analysis, and geometry.]

3. **To: Master of Arts Program in Mathematics & Instruction**

The Department of Mathematics and Computer Science offers courses designed to meet the needs of students who are interested in increasing their skills in mathematics and teaching. This program is a Professional Certification program, developed for those with initial New York state teacher certification in mathematics, grades 7-12 and wish to deepen their knowledge of mathematics in the areas of the discipline that are connected to the mathematics curriculum.

Admission Requirements

- Bachelor's degree (or its equivalent) from an accredited college or university.
- Initial New York State Teacher Certification in Mathematics Education, Grades 7 – 12.
- Demonstrate the ability to successfully pursue graduate study. (Above-average academic achievement in general and in the teaching specialization is required.)
- Have completed a 3 credit course in vector calculus, a 3 credit course in linear algebra and a 3 credit course in discrete mathematics. The required math prerequisites should have an average of B- or above .
- Completion of, or in progress of completing one year of teaching with supervision and two or more years of teaching in content area.
- Two letters of recommendation.

Degree Requirements

- 21-24 credits in MAT 600 courses and above - at least one course in each mathematical area: Analysis, Algebra, & Geometry
- 6-9 credits from Education Department with a GPA of B or better:
ESC 740: Teaching Math, Grades 7-10
ESC 748: Teaching Problem Solving in Mathematics in Middle and High School
ESC 749: Teaching Math in Grades 11 and 12
- Comprehensive exams based on 4 courses (excludes 2-credit Math Using Technology lab course)

4. Rationale:

The program adjustments reflect instituted NY State certification requirements. The program was originally registered with the state as leading to permanent certification, which no longer exists. Additionally, the update includes a modified prerequisite list that will be required of prospective students in order to be eligible for the program.

5. **Date of Math/CS departmental approval: October 26, 2011**
Date of MHSE departmental approval: November 30, 2011