

Lehman College
School of Education
Advising Worksheet
PROGRAM/CERTIFICATION REQUIREMENTS
Department of Middle and High School Education

Student _____ ID# _____

Program: M.S. Ed. Program in Mathematics Education, Middle Childhood Education (5-9) or Adolescent Education (7-12 / Advanced Certificate in Mathematics Education)

Steps in the Program

Decision Point 1: Admission to Program

- A bachelor's degree (or its equivalent) from an accredited college or university with an overall index of 2.7 or better
- Mathematics course work of at least 18 credits that include Calculus I and II, with an overall index of 2.7 or better in all mathematics courses taken.
- For Sequence 2, must hold a valid Transitional B Certificate from NYSED.
- Submission of scores on the New York State Liberal Arts and Sciences Test (LAST) or Academic Literacy Skills Test (ALST) and the New York State Content Specialty Test (CST) in Mathematics.
- If conditionally admitted, make up requirements starting in the first semester and finishing in no more than three consecutive semesters.
- Two letters of recommendation, at least one of which is from a college or university instructor of mathematics.
- A 500-word essay on career goals.
- A personal interview.
- Advanced Certificate Candidates:
 - A Master's degree in Mathematics or related subject
- Official Transcript

Decision Point 2: Enrollment in Student Teaching/Internship

Applicants must:

1. Meet the following GPA requirements: Minimum GPA 3.0
2. Have taken the following teacher certification exams: The New York State L.A.S.T. (Liberal Arts & Sciences Test) or Academic Literacy Skills Test
3. Have met with an advisor to make sure all prerequisites have been fulfilled.
4. Submit a complete student teaching or teaching internship application.
 - Applications are due between March 1st and April 1st for fall student teaching/teaching internship.
 - Applications are due between October 1st and November 1st for spring student teaching/teaching internship.
 - All applications require signature from School of Education program coordinator or advisor.
 - Undergraduate student teaching application also requires a signature from a major program advisor.
 - Student teaching applicants also need to submit negative tuberculosis skin test results (from the past 12 months) or a negative chest x-ray (for those who have ever had a positive tuberculosis skin test—x-ray must be from the past 5 years).
5. Register and validate for student teaching/teaching internship course(s).
6. Attend the student teaching orientation at the beginning of the student teaching semester.

Decision Point 3: Exit Requirements

Applicants must submit the following:

Complete a New York State Approved Teacher Preparation Program:

Must successfully complete a supervised student teaching or internship course with a grade of B or better, if seeking an institutional recommendation.

Meet all liberal arts and sciences requirements:

The [Certification Officer](#) reviews your file (and all transcripts) in order to determine whether or not you have completed all of the required course work.

Take the New York State Teacher Certification Exams (NYSTCE)

For exams schedules, registration and other testing information please visit the NYSTCE at <http://www.nystce.nesinc.com/>

LAST - Liberal Arts and Sciences Test (LAST): For all students

The LAST consists of multiple-choice questions and a written assignment. Examinees are asked to demonstrate conceptual and analytical skills, critical-thinking and communication skills, and multicultural awareness.

The test covers scientific, mathematical, and technological processes; historical and social scientific awareness; artistic expression and the humanities; communication and research skills; and written analysis and expression.

ATS-W – Secondary Assessment of Teaching Skills—Written (ATS–W):

The Secondary ATS–W consists of multiple-choice questions and a written assignment. It measures professional and pedagogical knowledge at the Secondary 7-12 level.

The Mathematics Content Specialty Test (CST 004)

Note: Candidates who apply for certification on or after May 1, 2014 will be required to take the Academic Literacy Skills Test (ALST), edTPA (Teacher Performance Assessments), Educating All Students Test (EAS), and Revised Content Specialty Test (CST) in lieu of Liberal Arts and Sciences Test (LAST), Assessments of Teaching Skills-Written (ATS-W), and Content Special Test (CST) as well as those candidates who applied for certification on or before April 30, 2014 but did not meet all the requirements for an initial certificate on or before April 30, 2014. Please visit the New York State Teacher Certification Examinations website for most updated information about the new tests at http://www.nystce.nesinc.com/NY_annProgramUpdate.asp.

Complete the mandated workshops that are offered by the Lehman College Office of Continuing Education:

- Child Abuse
- School Violence

If you need help preparing for these exams, Lehman College Office of Continuing Education offers PREP Workshops for the following NYSTCE: LAST, AST-W, CST

Fingerprinting

You will need finger print clearance for New York State Certification. For more information please visit the NYSED website at <http://www.highered.nysed.gov/tcert/ospra/>

Please note: Lehman College School of Education offers fingerprinting on-site twice a year for all student teachers. All student teachers need fingerprint clearance from either the New York City Department of Education or the New York State Education Department before the start of their student teaching experience. Any student teaching applicant who has not been fingerprinted will have an opportunity to do so on campus the semester prior to their student teaching course. **For additional information, please contact Elvani Pennil, Coordinator of the Professional Development Network, at elvani.pennil@lehman.cuny.edu.**

All applicants must create a NYSED TEACH account to apply for certification. Visit the NYSED at

<http://www.highered.nysed.gov/tcert/teach/> for more information.

For questions and assistance with certification, contact the Teacher Certification Office at 718 960-8401.

General Education Core: Liberal Arts and Sciences Requirements

Requirement	Course(s) Taken *	Credits Still Required
Concepts in history and social sciences (6)		
Scientific processes (6)		
Mathematical processes (6)		
English (6)		
A language other than English (1 year)		

* Courses must be completed at the 100 level or higher with grades of C or higher.

Graduate Courses: Degree Requirements

See Plan of Study (attached).

I have met with this candidate to discuss program/ certification requirements:

Program Coordinator _____
Certification Officer _____
Other _____

I have been advised about the courses that I need to complete my program and certification

Candidate

Date: _____

Cc: Candidate
Department
Office of the Dean, School of Education

TME 403 (Grades 5-9) non-math majors who do not hold Transition B Certification (33/36-42 crs)

Leading to Initial and Professional Certification

Prerequisites: Submit scores New York State Liberal Arts and Sciences Test (LAST) OR Academic Literacy Skills Test (ALST) : _____/CST in Mathematics: _____

18 credits in College level mathematics (grade B minimum), including Calculus I: __ and Calculus II: __
Other Mathematics Courses: _____

Core Education Courses (12/15-18)	Fall Year/Grade	Spring Year/Grade	Summer Year/Grade
ESC 501: Psychological Foundations of Education (3)			
ESC 502: Social Foundations of Education: A Multicultural Perspective (3)			
ESC 532: Teaching Mathematics in Middle and High School (3)			
ESC 506: Students with Special Needs in the mainstream Classroom (3) (for students who matriculated after fall 2011)			
Submit score ATSW			
ESC 595: Internship in Middle and High School Teaching (2)			
ESC 611: Internship Seminar (1)			
ESC 596: Student Teaching in Middle and High School (3)			
ESC 612: Student Teaching Seminar (3)			

Advanced Pedagogical Content in Mathematics Education (9)	Fall	Spring	Summer
ESC 740: Teaching Mathematics in Grades 7-10 (3)			
ESC 742: Research in Mathematics Education (3)			
ESC 748: Teaching Problem Solving in Mathematics in Middle & HS (3)			

Mathematics (12)	Fall	Spring	Summer
MAT 601: Secondary School Mathematics from an Advanced Standpoint (3)			
MAT 602: Introduction to Number Theory & Modern Algebra (3)			
MAT 655: Exploring Mathematics Using Technology (2)			
MAT 661: History of Mathematics (4)			

Research Project or Comprehensive Examination (0-3)	Fall	Spring	Summer
Comprehensive Examination (0)			
ESC 706: Research in Problems of Teaching a Specialized Subject (1)			
ESC 707: Project Seminar (2) (<i>ESC 706 and ESC 707 are co-requisites</i>)			

Course _____ substitutes for _____	Course _____ substitutes for _____
Course _____ substitutes for _____	Course _____ substitutes for _____

Comments:	Date:	Initials:
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**Program Coordinators: Professor Serigne M. Gningue: Carman Hall B-29D; 718-960-8262
Professor Orlando B. Alonso: Carman Hall B-29E; 718-960-1174**

TME 404 (Grades 5-9) non-math majors who are holders of Transition B Certification (**33-35/39 crs**)

Leading to Initial and Professional Certification

Prerequisites: Submit scores New York State Liberal Arts and Sciences Test (LAST) OR Academic Literacy Skills Test (ALST) : _____/CST in Mathematics: _____

18 credits in College level mathematics (grade B minimum), including Calculus I: __ and Calculus II: __
Other Mathematics Courses: _____

Core Education Courses (12/15)	Fall Year/Grade	Spring Year/Grade	Summer Year/Grade
ESC 501: Psychological Foundations of Education (3)			
ESC 502: Social Foundations of Education: A Multicultural Perspective (3)			
ESC 532: Teaching Mathematics in Middle and High School (3)			
ESC 506: Students with Special Needs in the mainstream Classroom (3) (for students who matriculated after fall 2011)			
ESC 595: Internship in Middle and High School Teaching (2)			
ESC 611: Internship Seminar (1)			

Advanced Pedagogical Content in Mathematics Education (9)	Fall	Spring	Summer
ESC 740: Teaching Mathematics in Grades 7-10 (3)			
ESC 742: Research in Mathematics Education (3)			
ESC 748: Teaching Problem Solving in Mathematics in Middle & HS (3)			

Mathematics (12)	Fall	Spring	Summer
MAT 601: Secondary School Mathematics from an Advanced Standpoint (3)			
MAT 602: Introduction to Number Theory & Modern Algebra (3)			
MAT 655: Exploring Mathematics Using Technology (2)			
MAT 661: History of Mathematics (4)			

Research Project or Comprehensive Examination (0-3)	Fall	Spring	Summer
Comprehensive Examination (0)			
ESC 706: Research in Problems of Teaching a Specialized Subject (1)			
ESC 707: Project Seminar (2) (<i>ESC 706 and ESC 707 are co-requisites</i>)			

Course _____ substitutes for _____	Course _____ substitutes for _____
Course _____ substitutes for _____	Course _____ substitutes for _____

Comments:	Date:	Initials:

**Program Coordinators: Professor Serigne M. Gningue: Carman Hall B-29D; 718-960-8262
Professor Orlando B. Alonso: Carman Hall B-29E; 718-960-1174**

TME 405 (Grades 7-12) non-math majors who do not hold Transition B Certification (40/43-49 crs)

Leading to Initial and Professional Certification

Prerequisites: Submit scores LAST OR ALST: _____ Math CST _____

18 credits in College level mathematics (grade B minimum), including Calculus I: ____, Calculus II: ____

Linear Algebra: ____, Statistics: ____, and History of Mathematics: ____

Other Mathematics Courses: _____

Core Education Courses (12/15-18)	Fall Year/Grade	Spring Year/Grade	Summer Year/Grade
ESC 501: Psychological Foundations of Education (3)			
ESC 502: Social Foundations of Education: A Multicultural Perspective (3)			
ESC 532: Teaching Mathematics in Middle and High School (3)			
ESC 506: Students with Special Needs in the mainstream Classroom (3) (for students who matriculated after fall 2011)			
Submit score ATSW (required for candidates graduating before 5/14)			
ESC 595: Internship in Middle and High School Teaching (2)			
ESC 611: Internship Seminar (1)			
ESC 596: Student Teaching in Middle and High School (3)			
ESC 612: Student Teaching Seminar (3)			

Advanced Pedagogical Content in Mathematics Education (12)	Fall	Spring	Summer
ESC 740: Teaching Mathematics in Grades 7-10 (3)			
ESC 742: Research in Mathematics Education (3)			
ESC 748: Teaching Problem Solving in Mathematics in Middle & HS (3)			
ESC 749: Teaching Mathematics in Grades 11 & 12 (3)			

Mathematics (16)	Fall	Spring	Summer
MAT 601: Secondary School Mathematics from an Advanced Standpoint (3)			
MAT 637: Topics in Discrete Mathematics (4)			
MAT 604: Applications of the Real and Complex Number Systems (3)			
MAT 655: Exploring Mathematics Using Technology (2)			
MAT 615: Modern Algebra (4)			

Research Project or Comprehensive Examination (0-3)	Fall	Spring	Summer
Comprehensive Examination (0)			
ESC 706: Research in Problems of Teaching a Specialized Subject (1)			
ESC 707: Project Seminar (2) (<i>ESC 706 and ESC 707 are co-requisites</i>)			

Course _____ substitutes for _____	Course _____ substitutes for _____
Course _____ substitutes for _____	Course _____ substitutes for _____

Comments:	Date:	Initials:

**Program Coordinators: Professor Serigne M. Gningue: Carman Hall B-29D; 718-960-8262
Professor Orlando B. Alonso: Carman Hall B-29E; 718-960-1174**

M. S. Ed. Program in Mathematics: Grades 7-12 (Accelerated)

TME 406: math majors who **do not hold** Transition B Certification (33/36-39/45 crs)

Leading to Initial and Professional Certification

Prerequisites: Major in Mathematics. Submit scores LAST OR ALST: _____ / Math CST: _____

Other Requirements: Candidates must consult with a Certification Officer (Room B33, Carman Hall) to ascertain additional requirements set by New York State.

Core Education Courses (12/15-18)	Fall Year/Grade	Spring Year/Grade	Summer Year/Grade
ESC 501: Psychological Foundations of Education (3)			
ESC 502: Social Foundations of Education: A Multicultural Perspective (3)			
ESC 532: Teaching Mathematics in Middle and High School (3)			
ESC 506: Students with Special Needs in the mainstream Classroom (3) (for students who matriculated after fall 2011)			
Submit score ATSW			
ESC 595: Internship in Middle and High School Teaching (2)			
ESC 611: Internship Seminar (1)			
ESC 596: Student Teaching in Middle and High School (3)			
ESC 612: Student Teaching Seminar (3)			

Advanced Pedagogical Content in Mathematics Education (12)	Fall	Spring	Summer
ESC 740: Teaching Mathematics in Grades 7-10 (3)			
ESC 742: Research in Mathematics Education (3)			
ESC 748: Teaching Problem Solving in Mathematics in Middle & HS (3)			
ESC 749: Teaching Mathematics in Grades 11 & 12 (3)			

Mathematics (9-12) Three (3/4 crs) graduate elective courses chosen with a program advisor	Fall	Spring	Summer

Research Project or Comprehensive Examination (0-3)	Fall	Spring	Summer
Comprehensive Examination (0)			
ESC 706: Research in Problems of Teaching a Specialized Subject (1)			
ESC 707: Project Seminar (2) (<i>ESC 706 and ESC 707 are co-requisites</i>)			

Course _____ substitutes for _____	Course _____ substitutes for _____
Course _____ substitutes for _____	Course _____ substitutes for _____

Comments:	Date:	Initials:

**Program Coordinators: Professor Serigne M. Gningue: Carman Hall B-29D; 718-960-8262
Professor Orlando B. Alonso: Carman Hall B-29E; 718-960-1174**

M. S. Ed. Program in Mathematics: Grades 7-12 (Accelerated Alternate Certification)

TME 407: math majors who are holders of Transition B Certification (33/36-39/42crs)

Leading to Initial and Professional Certification

Prerequisites: Major in Mathematics and a New York State Transitional B Certificate.

Submit scores LAST or ALST: _____/Math CST: _____ and ATSW*(**if graduating prior to 5/14*)

Other Requirements: Candidates must consult with a Certification Officer (Room B33, Carman Hall) to ascertain additional requirements set by New York State.

Core Education Courses (12/15)	Fall Year/Grade	Spring Year/Grade	Summer Year/Grade
ESC 501: Psychological Foundations of Education (3)			
ESC 502: Social Foundations of Education: A Multicultural Perspective (3)			
ESC 532: Teaching Mathematics in Middle and High School (3)			
ESC 506: Students with Special Needs in the mainstream Classroom (3) (for students who matriculated after fall 2011)			
ESC 595: Internship in Middle and High School Teaching (2)			
ESC 611: Internship Seminar (1)			

Advanced Pedagogical Content in Mathematics Education (12)	Fall	Spring	Summer
ESC 740: Teaching Mathematics in Grades 7-10 (3)			
ESC 742: Research in Mathematics Education (3)			
ESC 748: Teaching Problem Solving in Mathematics in Middle & HS (3)			
ESC 749: Teaching Mathematics in Grades 11 & 12 (3)			

Mathematics (9-12) Three (3/4 crs) graduate elective courses chosen with a program advisor	Fall	Spring	Summer

Research Project or Comprehensive Examination (0-3)	Fall	Spring	Summer
Comprehensive Examination (0)			
ESC 706: Research in Problems of Teaching a Specialized Subject (1)			
ESC 707: Project Seminar (2) (<i>ESC 706 and ESC 707 are co-requisites</i>)			

Course _____ substitutes for _____	Course _____ substitutes for _____
Course _____ substitutes for _____	Course _____ substitutes for _____

Comments:	Date:	Initials:

**Program Coordinators: Professor Serigne M. Gningue: Carman Hall B-29D; 718-960-8262
Professor Orlando B. Alonso: Carman Hall B-29E; 718-960-1174**

Advanced Certificate: Mathematics Education (24-27 credits)

This program is designed for candidates who hold a bachelor's degree in mathematics and a master's degree in mathematics or in an approved mathematics-related field, and who seek New York State Certification in mathematics, grades 7-12.

Admission Requirements

Candidates wishing to enter the Mathematics Education Certificate Program must meet the following conditions as determined by the program coordinator:

1. Possess a bachelor's degree (or its equivalent) from an accredited college or university which meets New York State requirements for a general education core in the liberal arts and sciences. This degree shall include a mathematics major, with a minimum of 36 credits in mathematics.
2. Possess a master's degree in mathematics or an approved mathematics-related field.
3. Demonstrate the ability to successfully pursue graduate study by having a master's grade point average (GPA) of 3.0 or better.
4. Satisfy the content requirements for New York State initial certification.
5. Submit scores on the NYS LAST Teacher Examination and the NYS Content Specialty Test in Mathematics (CST).
6. Submit two (2) letters of recommendation, at least one of which is from a college or university instructor of mathematics.
7. Submit a 500-word essay on career goals.
8. Participate in a personal interview.
9. Meet additional departmental, divisional, and New York State requirements, if any.
10. If conditionally admitted, make up requirements starting in the first semester and finishing in no more than three consecutive semesters.

Certificate Requirements

The Certificate Program in Mathematics Education consists of 24-27 credits, as outlined below: A minimum of a B average must be maintained throughout the course of the Program. All students are to consult with an adviser in Mathematics Education before starting the Program. In order to be recommended for NYS certification at the completion of the Program, candidates must have passed the LAST, the CST in Mathematics, and the NYS Written Assessment of Teaching Skills (ATS-W); they must also meet any additional requirements set by New York State.

Curriculum

- I. Foundations of Education (9)**
ESC 501 (3); ESC 502 (3) ESC 506 (3)
- II. Curriculum and Instruction (12)**
ESC 532 (3); ESC 740 (3) plus 6 additional credits in mathematics education to be selected in consultation with the program coordinator
- III. Practicum (3-6)**
ESC 595 (2) plus ESC 611 (1) OR ESC 596 (3) plus ESC 611 (3)

Extension Certificate: Mathematics Education [17 credits]

This program is designed for candidates who hold New York State initial certification to teach mathematics in grades 5-9 (Middle Childhood Education) and wish to extend their certification to include grades 7-12 (Adolescent Education).

Admission Requirements

Candidates wishing to enter the Extension Certificate in Mathematics Education Program must meet the following conditions as determined by the program coordinator:

1. Possess New York State initial certification to teach mathematics in grades 5-9.
2. Have either two or more semesters of successful experience teaching mathematics in grades 7, 8, or 9; or one semester of supervised student teaching in mathematics in grades 7, 8, or 9 (with a grade of B or better).
3. Present coursework in Calculus I, Calculus II, Linear Algebra, Statistics, and History of Mathematics with a GPA of 3.0 or better.
4. Submit scores on the NYS Content Specialty Test in Mathematics (CST).
5. Submit two (2) letters of recommendation, at least one of which is from a college or university instructor of mathematics.
6. Submit a 500-word essay on career goals.
7. Participate in a personal interview.
8. Meet additional departmental, divisional, and New York State requirements, if any. [Candidates should consult with a Certification Officer in Carman Hall, Room B33 to ascertain such requirements.]
9. If conditionally admitted, make up requirements starting in the first semester and finishing in no more than three consecutive semesters.

Certificate Requirements

The Extension Certificate Program in Mathematics Education consists of 17 credits, as outlined below. A minimum of a B average must be maintained throughout the course of the program. All students are to consult with an adviser in Mathematics Education before starting the Program.

Curriculum

I. Curriculum and Instruction (6 credits)

ESC 748 (3) and ESC 749 (3)

II. Mathematics Content (11 credits)

MAT 604 (3), MAT 615 (4), and MAT 637 (4)