ED.M. CERTIFICATION PROGRAM IN MATHEMATICS EDUCATION
(for post-baccalaureate students)
Revised August, 2016

I. PROGRAM DESCRIPTION: The Ed.M. program with (K-12) teacher certification in mathematics education is designed for individuals who possess a bachelor’s degree in mathematics or another technical field and who wish to pursue certification and a master’s degree in education at the same time. Certificates are recommended only in conjunction with the completion of the requirements for the Ed.M. degree.

The program has three major goals:

• to acquaint students with the historical development of mathematics education and a variety of perspectives on current issues
• to acquaint students with the psychology of learning mathematics and how individual differences among children with respect to academic ability and social, economic, and cultural backgrounds may influence learning
• to expand the mathematics background of students, to acquaint them with a variety of methods for teaching mathematics, and to provide them with practical experiences in creating effective classroom environments for children learning mathematics

II. SUBJECT MATTER SPECIALIZATION: Before teacher certification can be recommended, students must complete at least 30 credits in mathematics, computer science, and statistics, including: calculus III, linear algebra, probability/statistics, geometry, and computer science. A minimum of twelve credits must be at the 300 or 400 level.

III. APPLICATION REQUIREMENTS: To be considered for admission to the program, applicants must provide the following before the February 1st deadline:

1. Personal statement
2. Three letters of recommendation
3. Passing Praxis Core test scores
   a. or, minimum SAT scores of:
      i. 560 Reading, 540 Math (if taken 2/28/16 or earlier) or
      ii. 610 Reading & Writing or 30 Reading, 570 Math (if taken on or after 3/1/16)
   b. or, minimum ACT scores of: 23 English, 23 Math
   c. or, minimum GRE scores of: 155 Verbal, 156 Quantitative
      (Any test scores submitted must be less than five years old as of the application deadline. Scores must be official, not self-reported.)
4. Undergraduate transcripts - the New Jersey Department of Education requires a minimum GPA of 2.75 to be admitted to a teacher education program.

(NOTE: Admission to the GSE Teacher Education Programs is competitive. Meeting the minimum requirements above does not guarantee admission.)

IV. HOW TO APPLY: Applications are submitted online at the Graduate Admissions website: http://gradstudy.rutgers.edu/

1. Click on “Apply Now” and follow the instructions given.
2. Choose “Degree Application”, for Application Type.
3. For Program Name choose “Education: Mathematics” from the drop down menu.
4. Across from “Education: Mathematics Certification Program 15254C”, click the link for the Fall semester.
5. Complete the application by providing the requested information.
6. Supporting materials must be submitted online or mailed to the Graduate Admissions office at Office of Graduate and Professional Admissions (New Brunswick), Rutgers, The State University of New Jersey, 56 College Avenue, New Brunswick, NJ 08901-8530.
7. Enter payment information for the non-refundable application fee.
8. Submit your application and authorize payment for the non-refundable application fee.

V. GENERAL EDUCATION REQUIREMENTS: Students must complete coursework in each of the following areas by completion of the program; fulfillment of these courses is not required for admission into the program. It is highly recommended that you coordinate the elements of this list with those of the general distribution requirements of your undergraduate college to make the most efficient use of your time.

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>Course Number—Course Title—Term/Year—Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Human Development: one course</td>
<td>05:300:307 Human Development: Birth through the Transition to Adulthood</td>
</tr>
</tbody>
</table>

© Course must be 300-level or above to count towards graduate credits. 300- and 400-level courses must be registered for with a G-prefix.

VI. LIBERAL ARTS: Students must complete a minimum of 60 credits in liberal arts to earn the Master’s degree. Neither Education courses, nor any other performance-based or vocationally-oriented coursework (accounting, engineering, human resource management, public health, social work, etc.) may be counted toward the 60 liberal arts credits; no School 05, School 15, or E-credit courses may be included.

VII. PORTFOLIO: Students will archive artifacts from various GSE courses via an online instructional and evaluation system as directed by faculty. Details of this portfolio are specified in the Student Policy and Procedures Handbook.

VIII. GSE COMMUNITY-SCHOOL PARTNERSHIP NETWORK (GSE-CSPN): All field experiences will take place in a GSE-CSPN school.

IX. HIB TRAINING: All candidates for teacher certification must complete pre-service training in the prevention of harassment, intimidation, and bullying (HIB) prior to Clinical Practice II.

X. PRAXIS II TESTS: Students seeking certification in mathematics must achieve a passing score on the Mathematics: Content Knowledge Praxis II examination (code 5161). Students must pass all required tests prior to the start of full-time Clinical Practice Phase 3.

XI. edTPA PERFORMANCE BASED ASSESSMENT: Students must pass a performance based assessment of their teaching practice during the full-time Clinical Practice II semester. Details of this assessment are specified in the Student Policy and Procedures Handbook.

XII. PHYSIOLOGY, HYGIENE, AND SUBSTANCE ABUSE ISSUES: During their final semester, students must pass the official New Jersey Department of Education examination addressing issues of human physiology, hygiene, and substance abuse.

XIII. COMPREHENSIVE EXAMINATION: No comprehensive examination is required.
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<thead>
<tr>
<th>Phase/Semester</th>
<th>Course Number</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Phase 1 First Summer</strong></td>
<td>n/a</td>
<td>Working with Minors Online Training</td>
<td>n/a</td>
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<td></td>
<td>n/a</td>
<td>School Law Module</td>
<td>n/a</td>
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<tr>
<td><strong>Phase 1 First Fall</strong></td>
<td>15:255:530</td>
<td>Clinical Experience Phase 1</td>
<td>1</td>
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<td></td>
<td>05:300:450G</td>
<td>Urban Education 1</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>05:300:452G</td>
<td>Teaching Emerging Bilinguals in PK-12 Classrooms 1</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>05:300:341G</td>
<td>High School Mathematics Content: Teaching and Assessment</td>
<td>3</td>
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<tr>
<td></td>
<td>05:300:442G</td>
<td>Mathematical Practices: Doing and Teaching Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15:254:540</td>
<td>Introduction to Mathematics Education</td>
<td>3</td>
</tr>
<tr>
<td><strong>Phase 2 First Spring</strong></td>
<td>15:255:531</td>
<td>Clinical Practice Phase 2</td>
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<td>05:300:451G</td>
<td>Urban Education 2</td>
<td>1.5</td>
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<tr>
<td></td>
<td>05:300:453G</td>
<td>Teaching Emerging Bilinguals in PK-12 Classrooms 2</td>
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<td></td>
<td>05:300:306G</td>
<td>Educational Psychology: Principles of Classroom Learning</td>
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<td>05:300:443G</td>
<td>Methods of Teaching and Assessing Secondary Mathematics</td>
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<tr>
<td><strong>Phase 3 Second Summer</strong></td>
<td>15:293:534</td>
<td>Classroom Organization for Inclusive and Special Classrooms</td>
<td>3</td>
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<tr>
<td></td>
<td>15:254:548</td>
<td>Technology in Mathematics Teaching</td>
<td>3</td>
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<td><strong>Phase 3 Second Fall</strong></td>
<td>15:255:535</td>
<td>Clinical Practice Phase 3</td>
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<tr>
<td></td>
<td>15:255:532</td>
<td>Clinical Practice Phase 3 Seminar</td>
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<tr>
<td><strong>Phase 4 Second Spring</strong></td>
<td>05:300:406G</td>
<td>Community-Based Language Learning; or</td>
<td>3</td>
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<tr>
<td></td>
<td>15:253:540</td>
<td>Teaching English Language Learners; or</td>
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<td>15:255:539</td>
<td>Students, Communities, and Social Justice</td>
<td>3</td>
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<tr>
<td></td>
<td>15:293:523</td>
<td>Inclusive Teaching in Education</td>
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<td></td>
<td>Grad levelG</td>
<td>Elective</td>
<td>3</td>
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**Total Credits** 56 56

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