

## B.S. in Mathematics/Adolescence Education Degree Requirements (120 credits) (Revised FALL 2024)

TEHA students pl consult a TEHA advisor for any additional requirements

NOTE: This is a summary

PLEASE SEE THE CATALOG FOR FULL DETAILS USING THE FOLLOWING LINK

[MA712-BS Program | College of Staten Island Catalog \(cuny.edu\)](https://catalog.cuny.edu/ma712-bs-program)

Also consult **DEGREE WORKS** <https://degreeworks.cuny.edu> for individualized programs for students

### COMPLETE ONE OF THE FOLLOWING COURSES

- SPD 101 - Issues in College Life **OR** SKO 100 - Freshman Orientation
- Attend four CLUE Events

### General Education Requirements (42 credits)

|                      | <u>Credits</u> |
|----------------------|----------------|
| Required Common Core | 12             |
| Flexible Common Core | 18             |
| College Options      | 12             |

See Attachment for Recommended and suggested courses in this category.

### Pre-Major Requirements (22-25 credits)<sup>1</sup>

|  |                                    |                   |
|--|------------------------------------|-------------------|
| MTH 229  | Calculus Computer Laboratory       | 1                 |
| MTH 231  | Analytic Geometry and Calculus I   | 3                 |
| MTH 232  | Analytic Geometry and Calculus II  |                   |
| (To place into Mth 232, a grade of C is needed in Mth 230/231) |                                    | 3                 |
| MTH 233  | Analytic Geometry and Calculus III | 3                 |
| (To place into Mth 233, a grade of C is needed in Mth 232)     |                                    |                   |
|  |                                    | Total: 10 credits |

OR

|         |                                    |                   |
|---------|------------------------------------|-------------------|
| MTH 229 | Calculus Computer Laboratory       | 1                 |
| MTH 230 | Calculus I with Pre-Calculus       | 6                 |
| MTH 232 | Analytic Geometry and Calculus II  | 3                 |
| MTH 233 | Analytic Geometry and Calculus III | 3                 |
|         |                                    | Total: 13 credits |

|  |  |
|--|--|
|  |  |
|--|--|

**AND**

<sup>1</sup> Courses used to fulfill premajor requirement can be used to fulfill gen-ed requirement.

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**Major Requirements (36 credits)****Credits**

|         |   |   |
|---------|---|---|
| MTH 301 | Introduction to Mathematical Proofs                               | 4 |
| MTH 311 | Probability Theory and an Introduction to Mathematical Statistics | 4 |
| MTH 330 | Applied Mathematical Analysis I                                   | 4 |
|         | OR  |   |
| MTH 334 | Differential Equations  | 4 |
| MTH 338 | Linear Algebra  | 4 |
| MTH 339 | Applied Algebra   | 4 |
| MTH 341 | Advanced Calculus I   | 4 |
| MTH 306 | History of Mathematics  | 4 |
| MTH 329 | Geometry  | 4 |
| MTH 337 | Applied Combinatorics & Graph Theory                              | 4 |

Students must complete the Adolescence Education (EDS) course sequence (24 credits) within the electives. In order to register for the EDS sequence one must have a GPA of 3.0. In order to graduate in four years, students must begin the EDS sequence by the first semester of the junior year. This overall GPA 3.0 must be maintained till graduation. Also, a grade of at least C+ is required for all courses in the EDS sequence.

In order to complete the requirements within 4 years, the EDS sequence must be started by the fall semester of the junior year.

**EDS Sequence (24 credits)**

|  |            |
|--|------------|
| EDS 201 Social Foundations of Secondary Education                          | 4 credits  |
| EDS 202 Psychological Foundations of Secondary Education                   | 4 credits  |
| EDS 317 Secondary School Curriculum in Mathematics                         | 4 credits  |
| EDS 303 Secondary School Pedagogy in Mathematics                           | 4 credits  |
| EDS 400 Student Teaching in Secondary Education                            | 6 credits  |
| EDS 401 Reflection and Analysis in Student Teaching in Secondary Education | 2 credits  |
| Total:   | 24 credits |

AND

**EDP 220 (3 credits)**

Special Education Needs for people with disabilities  
This course is required for certification.

**Electives (0-As many needed for 120 credits)** : See the 8 semester schedule

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**Total (120 credits)**

**It is highly recommended that students majoring in Mathematics with an Adolescence Education concentration are proficient in a language at 114 level**

To graduate with Honors in the major, students must have an overall GPA of at least a 3.5 in courses under major requirements and must complete an Honors thesis or project.

Note: 1. GPA Requirement - In order to graduate with a B.S. in Mathematics/ Adolescence Education, you will need an overall GPA of 3.0 as well as a GPA of 2.0 in the courses under major requirement category and a GPA of 3.0 in the Education courses. . Also a grade of at least C+ is required for all courses in the EDS sequence.

2. Residency Requirement – To obtain a B.S. degree from CSI, students must earn at least 30 credits at CSI and must also earn at least half (50%) of the credits in the major requirement category at CSI. For details refer to catalog

3. Liberal Arts and Sciences Requirement - For a B.S. degree NY state requires that one half of credits must be in Liberal Arts and Sciences. For details refer to the catalog .