B.S. in Mathematics Degree Requirements (120 credits)   (Revised Fall' 24)

NOTE: This is a summary
PLEASE SEE THE CATALOG FOR FULL DETAILS USING THE FOLLOWING LINK
MTH-BS Program | College of Staten Island Catalog (cuny.edu)
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)   **Credits**

Required Common Core	12
Flexible Common Core	18
College Options	12

See GEN ED FOR MTH MAJORS for Recommended and suggested courses in this category.

Pre-Major Requirements (22-25 credits)[1]

MTH 229	Calculus Computer Laboratory	1	
MTH 231	Analytic Geometry and Calculus I	3	
MTH 232	Analytic Geometry and Calculus II	3	
(Need a C in MTH 231to enter)			
MTH 233	Analytic Geometry and Calculus III	3	
(Need a C in MTH 232 to enter)			

<div align="center">OR</div>

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

<div align="center">AND</div>

*MTH 214	Applied Statistics using Computers	4
	OR	
*CSC 126	Introduction to Computer Science	4
	OR	
CSC 270	Introduction to Scientific Computing	4

* It is recommended that students include both these courses in their curriculum; one of these courses can be taken as an elective.

<div align="center">**AND**</div>

Two courses with laboratories chosen from one of the following sequences:		8
BIO 170-171, 180-181	General Biology I and II with laboratories	
CHM 141-121,142-127	General Chemistry I and II with laboratories	
PHY 120-121, 160-161	General Physics I and II with laboratories	
GEO 115-116, 102-103	Physical and Historical Geology with laboratories	
GEO 115-116, ESC110-111	Physical Geology and Meteorology & Climatology with Laboratories	

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[1] Courses used to fulfill premajor requirement can be used to fulfill gen-ed requirement.

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AST 120-160	Space Science I and II with laboratories
Physics sequence is recommended for students who place in Mth 231/22	

Major Requirements (36 credits)   <u>Credits</u>

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

THREE Elective Upper-Level (300-400 level) Mathematics Courses   12

Electives (as many needed for a total of 120 credits)   **See the 8 semester Sample DEGREE MAP**

Total (120 credits)

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

Note: 1. <u>GPA Requirement</u> - In order to graduate, you will need an overall GPA of 2.0 as well as a GPA of 2.0 in the courses under major requirement category.

2. <u>Residency Requirement</u> – 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 the catalog .

3. <u>Liberal Arts and Sciences Requirement</u> - 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.