

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 (Need a C in MTH 231 to enter)	3
MTH 233	Analytic Geometry and Calculus III (Need a C in MTH 232 to enter)	3

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

AND

*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.

AND

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

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		
<u>Major Requirements (36 credits)</u>		<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. GPA Requirement - 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. 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 the 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.