B.S. in Mathematics

Degree Requirements (120 credits)

(Revised Fall '22)

For Students matriculating on or after Fall 2013

General Education Requirements (42 credits)	Credits
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)¹

MTH 229	Calculus Computer Laboratory	1
MTH 231	Analytic Geometry and Calculus I	3
MTH 232	Analytic Geometry and Calculus II	3
MTH 233	Analytic Geometry and Calculus III	3
		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

MTH 214	Applied Statistics using Computers	4
	OR*	
CSC 126	Introduction to Computer Science	4
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* It is recomm	nended that students include both these courses in their cur	riculum; one of these courses
can be taken a	s an elective	

AND

Two courses with laborate	ories chosen from one of the following sequences:	Total 8 credits
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, ESC 110-1	Physical Geology, Meteorology and Climat	tology with labs
AST 120-160	Space Science I and II with laboratories	

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

<u>Major Requirem</u>	ents (36 credits)	<u>Credits</u>
) (TELL 201	To the Dec	4
MTH 301	Introduction to Proof	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
	1	

MTH 338	Linear Algebra	4
MTH 339	Abstract Algebra	4
MTH 341	Advanced Calculus I	4
Three Electiv	ve Upper-Level (300-400 level) Mathematics Courses	12

Electives (0-33 credits) See the 8 semester Sample Schedule

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. <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 .