## B.S. in Mathematics

## Degree Requirements ( $\mathbf{1 2 0}$ credits)

For Students matriculating on or after Fall 2013
General Education Requirements ( 42 credits)

## Credits

Required Common Core $\quad 12$
Flexible Common Core 18
College Options 12
See Attachment for Recommended and suggested courses in this category.
Pre-Major Requirements ( $\mathbf{2 2 - 2 5}$ credits) ${ }^{\mathbf{1}}$

| 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 |
|  | OR | Total 10 credits |
|  |  |  |
| 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 |  |
| :--- | :--- | :---: |
| CSC 126 | OR* | 4 |
| *ntroduction to Computer Science | 4 |  |
| It is recommended that students include both these courses in their curriculum; one of these courses <br> can be taken as an elective. |  |  |

AND
Two courses with laboratories 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 110-111 Physical Geology, Meteorology and Climatology with labs
AST 120-160 Space Science I and II with laboratories

[^0]| MTH 301 | Introduction to Proof <br> Probability Theory and an Introduction to <br> Mathematical Statistics | 4 |
| :---: | :--- | :---: |
| MTH 330 | Applied Mathematical Analysis I <br> OR | 4 |
| MTH 334 | Differential Equations | 4 |


| MTH 338 | Linear Algebra | 4 |
| :--- | :--- | ---: |
| MTH 339 | Abstract Algebra | 4 |
| MTH 341 | Advanced Calculus I | 4 |
|  |  | 12 |

## Electives (0-33 credits) <br> 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. 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 .


[^0]:    1 Courses used to fulfill premajor requirement can be used to fulfill gen-ed requirement.

