B.S. in Mathematics/Adolescence Education
Degree Requirements (120 credits) (Revised Spring '18)

For Students matriculating on or after Fall 2018
TEHA students pl consult a TEHA advisor for any additional requirements

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
		Total: 4 credits

* 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:

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 100-101, 102-103	Physical and Historical Geology with laboratories
AST 120-160	Space Science I and II with laboratories

Total: 8 credits

1 Courses used to fulfill Pre-Major requirement can be used to fulfill Gen-Ed requirements.

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Major Requirements (36 credits) **Credits**

MTH 301	Introduction to Mathematical 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
MTH 338	Linear Algebra	4
MTH 339	Abstract Algebra I	4
MTH 341	Advanced Calculus I	4

The following Upper-Level (300-400 level) Mathematics Courses: 12
History of Mathematics (MTH 306), Geometry (MTH 329) and Applied Combinatorics and Graph Theory (MTH 337).

Students must complete the Adolescence Education (EDS) course sequence (27 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 of 3.0 must be maintained till graduation. Also a grade of at least C+ is required for all courses in the EDS sequence.

EDS Sequence (27 credits)

EDP 220 Special Education Needs for people with disabilities	3 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:	27 credits

Total (120 credits)

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

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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.

This new requirement of a GPA of 3.0 (raised from 2.75) is for all students who matriculate into the program as of Fall 2015.

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 .