<b>Degree Requirements (120 credits)</b> (Revised June '15)				
For students wh	no matriculated before Fall 2013			
General Education Requirements (33-39 credits)		<u>Credits</u>		
ENG 111		3		
ENG 15	1	4		
PED 190		1		
COR 100		4		
<u>Scientifi</u>	c Analysis (11 credits)			
Science and Technology <sup>1</sup>		8		
Mathematics		3		
Social Scientific Analysis (see p. 47 for details) <sup>2,3</sup>		3-4		
The Con	temporary World (see p.49 for details) <sup>2</sup>			
Textual, Aesthetic, and Linguistic Analysis (see p. 49 for details) <sup>2</sup>		3-4		
Pluralism and Diversity Requirement (see p. 51 for details)		0-4		
	_			
Pre-Major Requ	uirements (14-17 credits) <sup>5</sup>			
MTH 22	9 Calculus Computer Laboratory	1		
MTH 23	1 Analytic Geometry and Calculus I	3		
MTH 23	2 Analytic Geometry and Calculus II	3		
MTH 23	3 Analytic Geometry and Calculus III	3		
	OR			
MTH 22	9 Calculus Computer Laboratory	1		
MTH 23	0 Calculus I with Pre-Calculus	6		
MTH 23	2 Analytic Geometry and Calculus II	3		
MTH 23	3 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 Programming	4		
* It is recommen	ded that students include both these courses in their curriculum;	one of these courses can		
be taken as an ele	ective.			

**B.S. in Mathematics-Adolescence Education** 

# 1Two courses with laboratories chosen from one of the following sequences:<br/>BIO 170-171, 180-181<br/>CHM 141-121,142-127<br/>PHY 120-121, 160-161<br/>GEO 100-101, 102-103<br/>AST 100-101, 102-103General Biology I and II with laboratories<br/>General Chemistry I and II with laboratories<br/>Physical and Historical Geology with laboratories<br/>Contemporary Theories of the Solar System (with planetary laboratory)<br/>and of the Universe (with galactic laboratory).<br/>This choice is eliminated as of Fall 2015AST 120-160Space Science I and II with laboratories

<sup>2</sup> Page numbers refer to the undergraduate catalog 2012-13

<sup>3</sup> Can be satisfied by PSY 100, Psychology a prerequisite for EDS 202 and is required for students majoring in Mathematics with an Adolescence Education concentration.

<sup>4</sup> Remark: This requirement can be satisfied by appropriate selection in Social Scientific Analysis, Contemporary World or TALA.

<sup>5</sup> Courses used to fulfill pre-major requirement can be used to fulfill gen-ed requirement.

#### Major Requirements (36 credits)

Credits

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
Four Elective Upper-Level (300-400 level) Mathematics Courses		16

#### Electives (28-37 credits)

28-37

#### Total (120 credits)

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

### Additional Requirements for students majoring in Mathematics with an Adolescence Education concentration

- 1. The elective upper-level Mathematics courses must include a course in History of Mathematics (MTH 306) and a course in Geometry (MTH 329)
- 2. Students must complete the following <u>Adolescence Education (EDS) course sequence (24</u> <u>credits)</u> within the electives:
- EDS 201: Social Foundations of Secondary Education. 4 cr
- EDS 202: Psychological Foundations of Secondary Education. 4 cr
- EDS 303: Secondary School Pedagogy in Mathematics. 4 cr
- EDS 317: Secondary School Curriculum in Mathematics. 4 cr (This is a course replacement for EDS 307)
- EDS 400: Student Teaching in Secondary Education. 6 cr

EDS 401: Reflection & Analysis in Student Teaching.2cr

3. EDP 220 (3 credits) is required for certification.

In order to register for the EDS sequence one must have a GPA of 2.75 (Raised to 3.0 as of Fall

2015). For details refer to the catalog on page 170.  $^2$  Also note: EDS 307 has been replaced with EDS 317.

4. Completion of a CSI modern language at the 114 level is recommended and may be required for certification.

NOTE:

1. **GPA Requirement** - In order to graduate with a B.S, in Mathematics/ Adolescence Education, you will need an overall GPA of 2.75 as well as a GPA of 2.0 in the courses under major requirement category and a GPA of 2.75 in the Education courses. Also a grade of at least C+ is required for all courses in the EDS sequence.

## There is a new requirement of a GPA of 3.0 (raised from 2.75), overall and in Education courses for all students who matriculate into the program as of Fall 2015.)

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 catalog on page  $45^2$ .

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 (2007-2009) on pages  $52^2$ , and  $62^2$ .