## B.S. in Mathematics-Adolescence Education <br> Degree Requirements ( 120 credits)

(Revised June '15)
For students who matriculated before Fall 2013
General Education Requirements ( $\mathbf{3 3 - 3 9}$ credits) $\quad$ Credits
ENG 111
3
ENG 151
4
PED 190
1
COR 100 4
Scientific Analysis (11 credits)
Science and Technology ${ }^{1}$
8
Mathematics 3
Social Scientific Analysis (see p. 47 for details) ${ }^{2,3} \quad 3-4$
The Contemporary World (see p. 49 for details) ${ }^{2}$
Textual, Aesthetic, and Linguistic Analysis (see p. 49 for details) ${ }^{2} \quad 3-4$
Pluralism and Diversity Requirement (see p. 51 for details) ${ }^{2,4}$ 0-4
Pre-Major Requirements ( $\mathbf{1 4 - 1 7}$ credits) ${ }^{5}$

| 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 |  |  |
| 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


[^0]| MTH 311 | 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 | Applied Algebra |  |
| MTH 341 | Advanced Calculus I | 4 |
| Four Elective Upper-Level (300-400 level) Mathematics Courses | 4 |  |
|  |  |  |
| ectives ( $\mathbf{2 8 - 3 7}$ credits) | 16 |  |

## 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 Adolescence Education (EDS) course sequence (24 credits) 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 reqiurement of a GPA of $\mathbf{3 . 0}$ (raised from 2.75), overall and in Education courses 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 on page $45^{2}$.
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 (2007-2009) on pages $52^{2}$, and $62^{2}$.


[^0]:    1 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 100-101, 102-103 Contemporary Theories of the Solar System (with planetary laboratory)
    and of the Universe (with galactic laboratory).
    This choice is eliminated as of Fall 2015
    Space Science I and II with laboratories
    AST 120-160
    ${ }^{2}$ Page numbers refer to the undergraduate catalog 2012-13
    ${ }^{3}$ 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.
    ${ }^{4}$ Remark: This requirement can be satisfied by appropriate selection in Social Scientific Analysis, Contemporary World or TALA.
    ${ }^{5}$ Courses used to fulfill pre-major requirement can be used to fulfill gen-ed requirement.

