

# MATHEMATICS, B.A. - EDUCATION WITH TEACHER CERTIFICATION, ELEMENTARY GRADES

| Code   | Title                             | Credits    |
|--|-----------------------------------|------------|
| <b>General Education Requirement</b>   |                                   |            |
| VSJ 100  | Vincentian Social Justice         | 3          |
| Foundation Courses ( <a href="http://catalog.niagara.edu/undergraduate/curriculum/foundation-courses/">http://catalog.niagara.edu/undergraduate/curriculum/foundation-courses/</a> )   |                                   | 27         |
| Distribution Courses ( <a href="http://catalog.niagara.edu/undergraduate/curriculum/general-education-distribution-courses/">http://catalog.niagara.edu/undergraduate/curriculum/general-education-distribution-courses/</a> ) |                                   | 30         |
| <b>Professional Requirement</b>  |                                   |            |
| Select 33 credits of Professional Requirement courses  |                                   | 33         |
| <b>Major Requirement</b>   |                                   |            |
| MAT 111<br>& MAT 112   | Calculus I<br>and Calculus II     | 8          |
| MAT 102  | Intro Statistics <sup>2</sup>     | 3          |
| MAT 251  | Math for Elem Teach               | 3          |
| MAT 227  | Foundat of Math                   | 3          |
| MAT 228  | Linear Algebra                    | 4          |
| MAT 320  | Math Modeling                     | 3          |
| MAT 443  | Euclidean Geometry                | 3          |
| MAT 451  | History of Math                   | 3          |
| Mathematics elective <sup>3</sup>  |                                   | 3          |
| MAT 499  | Senior Seminar                    | 3          |
| CIS 198  | Intro Computers/Tchr <sup>2</sup> | 3          |
| <b>New York State Certification in Elementary Grades</b>   |                                   |            |
| A college-level course (three credit hours) in English, mathematics, science, social studies and a language other than English is required for New York state certification in elementary grades.                              |                                   |            |
| <b>Total Credits</b>   |                                   | <b>132</b> |

<sup>1</sup> MAT 102 Intro Statistics, and CIS 198 Intro Computers/Tchr, must be taken in the distribution component.

<sup>2</sup> MAT 222 Differential Equat or 300 or 400 levels only