

# Mathematics Education Major Degree Plan

The suggested schedule shown below is for a Mathematics Education Major with a Teaching Minor. This schedule should be used in conjunction with the major requirement sheet at:

<http://www.usu.edu/majorsheets/>

While there are requirements that are sequential, many are flexible and do not need to be completed exactly in the order listed. Students should always check with their faculty and professional advisors to be sure they are meeting the requirements appropriately.

## Freshman Year (28-34 credits)

### Fall Semester (14-17 credits)

|   |     |
|---|-----|
| <b>STAT 1040 (QL)</b> Introduction to Statistics (3 cr) <b>or</b> |     |
| <b>STAT 2000 (QI)</b> Statistical Methods (3 cr) <b>or</b>        |     |
| <b>STAT 3000 (QI)</b> Statistics for Scientists (3 cr)            | 3   |
| <b>MATH 1210 (QL)</b> Calculus I                                  | 4   |
| College of Science required course                                | 4   |
| University Studies course(s)                                      | 3-6 |

### Spring Semester (14-17 credits)

|                                    |     |
|------------------------------------|-----|
| <b>MATH 1220 (QL)</b> Calculus II  | 4   |
| College of Science required course | 4   |
| University Studies courses         | 6-9 |

## Sophomore Year (30 credits)

### Fall Semester (16 credits)

|   |   |
|---|---|
| <b>MATH 2210 (QI)</b> Multivariable Calculus                    | 3 |
| <b>MATH 2250 (QI)</b> Linear Algebra and Differential Equations | 4 |
| University Studies and teaching minor courses                   | 9 |

### Spring Semester (14 credits)

|   |   |
|---|---|
| <b>MATH 3110</b> Modern Geometry                      | 3 |
| <b>MATH 4200 (CI)</b> Foundations of Analysis         | 3 |
| <b>SPED 4000</b> Education of Exceptional Individuals | 2 |
| University Studies courses                            | 6 |

## Junior Year (28-31 credits)

### Fall Semester (15 credits)

|   |   |
|---|---|
| <b>MATH 3310</b> Discrete Mathematics                               | 3 |
| <b>MATH 5710</b> Introduction to Probability                        | 3 |
| <b>SCED 3100</b> Motivation and Classroom Management                | 3 |
| <b>SCED 3210 (CI/DSS)</b> Educational and Multicultural Foundations | 3 |
| University Studies and/or teaching minor course(s)                  | 3 |

### Spring Semester (13-16 credits)

|  |     |
|--|-----|
| <b>MATH 4310 (CI)</b> Introduction to Algebraic Structures | 3   |
| <b>MATH 4400</b> History of Mathematics and Number Theory  | 3   |
| Teaching Methods in Minor course <sup>1</sup>              | 3   |
| Clinical Experience course in minor <sup>2</sup>           | 1   |
| University Studies and/or teaching minor course(s)         | 3-6 |

## Senior Year (25 credits)

### Fall Semester (13 credits)

|  |   |
|--|---|
| <b>SCED 4200 (CI)</b> Reading, Writing, and Technology                                       | 3 |
| <b>SCED 4210</b> Cognition and Evaluation of Student Learning (3 cr) <b>or</b>               |   |
| <b>MATH 5020</b> Mathematical Cognition and Assessment of<br>Mathematical Achievement (3 cr) | 3 |
| <b>MATH 4300</b> School Laboratory<br>for Mathematics Teachers Level II                      | 1 |
| <b>MATH 4500</b> Methods of Secondary<br>School Mathematics Teaching                         | 3 |
| <b>MATH 5010</b> Capstone Mathematics, Statistics, and<br>Technology for Teachers            | 3 |

### Spring Semester (12 credits)

|  |    |
|--|----|
| <b>SCED 5500</b> Student Teaching Seminar              | 2  |
| <b>SCED 5630</b> Student Teaching in Secondary Schools | 10 |

<sup>1</sup>Teaching Methods in Minor courses are taught in various departments and have various prefixes and course numbers.

<sup>2</sup>Clinical Experience courses are taught in various departments and have various prefixes. These courses generally have a course number of 3300.