MATHEMATICS EDUCATION
MAJOR: SECONDARY EDUCATION OPTION (B.S.)

https://ceps.unh.edu/mathematics-statistics/program/bs/mathematics-education-secondary-education-option

Description

This professional degree program prepares students for teaching mathematics at the secondary level. The program is coordinated with the education department’s teacher certification programs. Students may complete the degree requirements for the secondary option with full teacher certification in either four or five years.

Students electing the four-year option leading must plan for one semester of student teaching (EDUC 694 Courses in Supervised Teaching) in their senior year; this requires careful planning with your program adviser to accommodate the scheduling of required MATH courses. Requirements for admission to student teaching include receiving credit for EDUC 500 and a minimum cumulative 2.8 GPA.

The five-year program includes a year-long teaching internship in the fifth year. The internship requires admission into a UNH Department of Education graduate program that leads to certification. See Education, College of Liberal Arts. (https://catalog.unh.edu/graduate/programs-study/education)

Graduation Requirements

In all courses used to satisfy the requirements for its major programs, the Department of Mathematics and Statistics requires that a student earn a grade of C- or better and have an overall grade-point average of at least 2.00 in these courses.

For teacher licensure a grade of B- or better is required in all Education courses.

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Required MATH Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 425</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>MATH 426</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>MATH 445</td>
<td>Mathematics and Applications with MATLAB</td>
<td>4</td>
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<tr>
<td>or CS 410</td>
<td>Introduction to Scientific Programming</td>
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<tr>
<td>MATH 527</td>
<td>Differential Equations with Linear Algebra</td>
<td>4</td>
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<tr>
<td>MATH 528</td>
<td>Multidimensional Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 531</td>
<td>Mathematical Proof</td>
<td>4</td>
</tr>
<tr>
<td>MATH 539</td>
<td>Introduction to Statistical Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 545</td>
<td>Introduction to Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 645</td>
<td>Linear Algebra for Applications</td>
<td></td>
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<tr>
<td>MATH 624</td>
<td>Analysis of Secondary School Mathematics</td>
<td>4</td>
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<tr>
<td>MATH 700</td>
<td>Introduction to Mathematics Education</td>
<td>4</td>
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<tr>
<td>MATH 709</td>
<td>Teaching of Mathematics in Grades 6-12</td>
<td>4</td>
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<tr>
<td>MATH 760</td>
<td>Geometry</td>
<td>4</td>
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<tr>
<td><strong>Capstone</strong></td>
<td>2-4</td>
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<tr>
<td>MATH 797</td>
<td>Senior Seminar</td>
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<tr>
<td>or MATH 799</td>
<td>Senior Thesis</td>
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**Other Required Courses**

| EDUC 500 | Exploring Teaching                       | 4       |
| EDUC 700 | Educational Structure and Change         | 4       |
| EDUC 701 | Human Development and Learning: Educational Psychology | 4 |
| EDUC 705 | Contemporary Educational Perspectives    | 4       |

Total Credits: 74-76

Note: EDUC 751B Educating Exceptional Learners: Secondary is a requirement for certification and may be taken as an undergraduate.