MATHEMATICS MAJOR (B.A.)

https://ceps.unh.edu/mathematics-statistics/mathematics-ba

Description
The bachelor of arts degree with the mathematics major may offer a broader liberal arts program than the bachelor of science degree programs. By a careful selection of electives, students can shape this major into a preparation for graduate school, business, or industry.

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.

Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required MATH Courses</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>
</tr>
<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>
<td></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>
</tr>
<tr>
<td>MATH 761</td>
<td>Abstract Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MATH 767</td>
<td>One-Dimensional Real Analysis</td>
<td>4</td>
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<tr>
<td>Select THREE approved MATH courses, chosen in consultation with the major advisor</td>
<td>12</td>
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<tr>
<td>Select one of the following (satisfies the capstone experience requirement for the Discovery Program):</td>
<td>2-4</td>
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<tr>
<td>MATH 797</td>
<td>Senior Seminar</td>
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<tr>
<td>MATH 799</td>
<td>Senior Thesis</td>
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</tr>
</tbody>
</table>

Total Credits 54-56

1 MATH 525 Linearity I may be substituted for: MATH 545 Introduction to Linear Algebra or MATH 645 Linear Algebra for Applications. MATH 525 Linearity I - MATH 526 Linearity II may be substituted for: MATH 527 Differential Equations with Linear Algebra, MATH 528 Multidimensional Calculus, and MATH 645 Linear Algebra for Applications.

Other required courses: Foreign language requirement as defined by the University for all B.A. degrees.