DUAL DEGREE IN
MATHEMATICS

This sequence permits students to complete a primary major in one discipline and then to complete requirements for a second, “dual,” degree in mathematics. Students could graduate with both degrees simultaneously or, if necessary, graduate with the primary degree in one semester and complete the remaining dual degree requirements within one year. The requirements for the dual degree include 30 semester credit hours of mathematics as outlined below. Students must complete a minimum of 30 credit hours of courses above the total hours required for the primary degree. Thus, the minimum requirement for the two degrees is 150 credit hours.

Summary of Graduation Requirements

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Core (<a href="https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/">https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/</a>)</td>
<td>40</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>54</td>
</tr>
<tr>
<td>Electives</td>
<td>5</td>
</tr>
<tr>
<td>Other Requirements</td>
<td>21</td>
</tr>
<tr>
<td>Dual Mathematics Requirements</td>
<td>30</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td><strong>150</strong></td>
</tr>
</tbody>
</table>

Curriculum

1. **Complete Primary Degree Requirements**
   *(Minimum of 120 Semester Hours)*

2. **Complete Dual Mathematics Requirements**
   *(30 Semester Hours)*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 251</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MTH 252</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MTH 300</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MTH 351</td>
<td>Probability &amp; Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 372</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MTH 373</td>
<td>Advanced Vector Calculus</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mathematics Electives**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 310</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MTH 331</td>
<td>Algebraic Structures</td>
<td></td>
</tr>
<tr>
<td>MTH 352</td>
<td>Probability &amp; Statistics II</td>
<td></td>
</tr>
<tr>
<td>MTH 382</td>
<td>Introduction to Applied Mathematics</td>
<td></td>
</tr>
<tr>
<td>MTH 384</td>
<td>Mathematical Modeling in the Sciences</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 401</td>
<td>Numeric Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>MTH 431</td>
<td>Abstract Algebra</td>
<td></td>
</tr>
<tr>
<td>MTH 473</td>
<td>Real Analysis</td>
<td></td>
</tr>
<tr>
<td>MTH 484</td>
<td>Topics in Applied Mathematics</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits**

26

3. **Complete 30-Hour Minimum Requirement**