## Integrated Studies - Mathematical Sciences Emphasis, BA/BS

### Mathematical Sciences Emphasis Requirements

**32 credits**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1050</td>
<td>College Algebra / Pre-Calculus (MA) (^1)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1060</td>
<td>Trigonometry (MA) (^1)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1210</td>
<td>Calculus I (MA)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1220</td>
<td>Calculus II (MA)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2200</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete the following through coursework or credit by examination:

- MATH 1050
- MATH 1060

Complete 15 credits from the following courses:

- MATH 3000  History of Mathematics
- MATH 3100  Euclidean / Non-Euclidean Geom
- MATH 3150  Introduction to Partial Differential Equations
- MATH 3200  Introduction to Analysis I
- MATH 3210  Introduction to Analysis II
- MATH 3400  Probability & Statistics
- MATH 3500  Numerical Analysis
- MATH 3900  Number Theory
- MATH 4000  Foundations of Algebra
- MATH 4010  Abstract Algebra
- MATH 4100  Introduction to Topology
- MATH 4200  Introduction to Complex Analysis

\(^1\) MATH 1080 will meet both the MATH 1050 and MATH 1060 requirements.

### Notes:

1. Students must select and complete two emphases and Core Requirements.
2. Grade C or higher in each Emphasis Area course required.