MATHEMATICS MINOR

Degree Requirements
If a minor is required in your degree program, at least 9 (lower and/or upper-division) hours of courses in the minor must be completed at the University.

Minor in Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 125</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MA 126</td>
<td>Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>

Additional Courses
Select four of the following: 10-13 hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 227</td>
<td>Calculus III</td>
<td></td>
</tr>
<tr>
<td>MA 237</td>
<td>Linear Algebra I</td>
<td></td>
</tr>
<tr>
<td>MA 238</td>
<td>Differential Equations I</td>
<td></td>
</tr>
<tr>
<td>MA 267</td>
<td>Discrete Math Structures</td>
<td></td>
</tr>
<tr>
<td>MA 311</td>
<td>Intro to Number Theory</td>
<td></td>
</tr>
<tr>
<td>MA 316</td>
<td>Linear Algebra II</td>
<td></td>
</tr>
<tr>
<td>MA 320</td>
<td>Foundations of Math - W</td>
<td></td>
</tr>
<tr>
<td>MA 321</td>
<td>Elementary Geometry</td>
<td></td>
</tr>
<tr>
<td>MA 332</td>
<td>Differential Equations II</td>
<td></td>
</tr>
<tr>
<td>MA 334</td>
<td>Advanced Calculus I</td>
<td></td>
</tr>
<tr>
<td>MA 335</td>
<td>Advanced Calculus II</td>
<td></td>
</tr>
<tr>
<td>MA 354</td>
<td>Comp Assist Math Modeling - W</td>
<td></td>
</tr>
<tr>
<td>MA 367</td>
<td>Combinatorial Enumeration</td>
<td></td>
</tr>
<tr>
<td>MA 410</td>
<td>History of Mathematics - W</td>
<td></td>
</tr>
<tr>
<td>MA 413</td>
<td>Abstract Algebra I - W</td>
<td></td>
</tr>
<tr>
<td>MA 414</td>
<td>Abstract Algebra II - W</td>
<td></td>
</tr>
<tr>
<td>MA 434</td>
<td>Topology</td>
<td></td>
</tr>
<tr>
<td>MA 436</td>
<td>Numerical Analysis</td>
<td></td>
</tr>
<tr>
<td>MA 437</td>
<td>Complex Variables</td>
<td></td>
</tr>
<tr>
<td>MA 451</td>
<td>Probability</td>
<td></td>
</tr>
<tr>
<td>MA 458</td>
<td>Operations Research - W</td>
<td></td>
</tr>
<tr>
<td>MA 467</td>
<td>Mathematical Logic</td>
<td></td>
</tr>
<tr>
<td>MA 481</td>
<td>Cryptography</td>
<td></td>
</tr>
<tr>
<td>MA 490</td>
<td>Special Topics</td>
<td></td>
</tr>
<tr>
<td>ST 315</td>
<td>Applied Probability-Statistics</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 18-21

At least two of the courses chosen for the minor must be 300 level or higher.

Where to Begin in the Mathematics Courses?
Students must begin at the proper level and in the proper track in mathematics. Students who lack college level credit in mathematics should take the placement exam at least 48 hours prior to registering for a mathematics course. Students must register online to take the test. Times and days of the test as well as registration information are available at the department website.

Note 1: To Avoid Duplication:
1. Credit for both MA 112 and MA 115 is not allowed.
2. Credit for both MA 113 and MA 115 is not allowed.
3. Credit for both MA 120 and MA 125 is not allowed.
4. Students may receive credit for only one of the following: ST 310, ST 315 or ST 320.

Note 2: MA 110 is not a pre-requisite course for any other course required by mathematics and statistics major.