# Mathematics Minor

## Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 143</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 206</td>
<td>Linear Algebra I</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 244</td>
<td>Linear Analysis I</td>
<td></td>
</tr>
<tr>
<td>MATH 248</td>
<td>Methods of Proof in Mathematics</td>
<td>4</td>
</tr>
</tbody>
</table>

## Approved Electives

Select from the following (at most two 300-level courses):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MATH 304</td>
<td>Vector Analysis</td>
</tr>
<tr>
<td>MATH 306</td>
<td>Linear Algebra II</td>
</tr>
<tr>
<td>MATH 335</td>
<td>Graph Theory</td>
</tr>
<tr>
<td>MATH 336</td>
<td>Combinatorial Math</td>
</tr>
<tr>
<td>MATH 341</td>
<td>Theory of Numbers</td>
</tr>
<tr>
<td>MATH 344</td>
<td>Linear Analysis II</td>
</tr>
<tr>
<td>MATH 404</td>
<td>Introduction to Differential Geometry</td>
</tr>
<tr>
<td>MATH 406</td>
<td>Linear Algebra III</td>
</tr>
<tr>
<td>MATH 408</td>
<td>Complex Analysis I</td>
</tr>
<tr>
<td>MATH 409</td>
<td>Complex Analysis II</td>
</tr>
<tr>
<td>MATH 412</td>
<td>Introduction to Analysis I</td>
</tr>
<tr>
<td>MATH 413</td>
<td>Introduction to Analysis II</td>
</tr>
<tr>
<td>MATH 414</td>
<td>Introduction to Analysis III</td>
</tr>
<tr>
<td>MATH 416</td>
<td>Differential Equations II</td>
</tr>
<tr>
<td>MATH 418</td>
<td>Partial Differential Equations</td>
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<tr>
<td>MATH 435</td>
<td>Discrete Mathematics with Applications I</td>
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<tr>
<td>MATH 437</td>
<td>Game Theory</td>
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<tr>
<td>MATH 440</td>
<td>Topology I</td>
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<tr>
<td>MATH 442</td>
<td>Euclidean Geometry</td>
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<tr>
<td>MATH 443</td>
<td>Modern Geometries</td>
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<tr>
<td>MATH 451</td>
<td>Numerical Analysis I</td>
</tr>
<tr>
<td>MATH 452</td>
<td>Numerical Analysis II</td>
</tr>
<tr>
<td>MATH 453</td>
<td>Numerical Optimization</td>
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<tr>
<td>MATH 481</td>
<td>Abstract Algebra I</td>
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<tr>
<td>MATH 482</td>
<td>Abstract Algebra II</td>
</tr>
<tr>
<td>MATH 483</td>
<td>Abstract Algebra III</td>
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</table>

Total units: 28