MATHEMATICS MINOR

Minor Requirements

Prerequisite Courses (8 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 141</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 142</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td>8</td>
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</tbody>
</table>

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<tbody>
<tr>
<td>Required Course</td>
<td>Vector Calculus</td>
<td>3</td>
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</table>

Additional Courses

Select 15 hours from the following:

- MATH 242 Elementary Differential Equations
- MATH 300 Transition to Advanced Mathematics
- MATH 344 Applied Linear Algebra
- MATH 374 Discrete Structures
- MATH courses at the 500-level

Total Credit Hours: 18

1 At least 6 hours must be at the 500-level.

Note

- All courses for a minor must be completed with a C or better.
- At most one of MATH 374 and MATH 574 may be used for minor credit.
- At most one of MATH 344, MATH 526, and MATH 544 may be used for minor credit.
- Most of the math courses at the 500-level have a prerequisite of MATH 300 and/or MATH 344 (or MATH 544, which implicitly assumes completion of 300). Students are therefore strongly urged to include one or both of MATH 300, MATH 344 in their minor program.
- Students with an interest in pure mathematics (algebra, analysis, discrete mathematics, geometry and topology, logic, mathematics education, and number theory) should take MATH 300.
- Students with an interest in applied and computational mathematics (differential equations and modeling, financial mathematics, numerical analysis, optimization) should take MATH 344.
- Prospective minors are urged to consult with an advisor in the Department of Mathematics to plan a coherent program of study.