Minor in Applied Mathematics

Mathematics Core

All bachelor degrees offered in the Department of Mathematics and Statistics have a common core consisting of the following six courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 1181</td>
<td>Computer Science and Programming I (^1)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1170</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1175</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2275</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2240</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3326</td>
<td>Elementary Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Credits</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

\(^1\) The two courses, ME 1165 Structured Programming and ME 2266 Symbolic Programming, may be substituted for CS 1181.

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mathematics Core (See above)</td>
<td>21</td>
</tr>
<tr>
<td>MATH 3360</td>
<td>Differential Equations</td>
<td>3</td>
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<td><strong>Select ONE of the following:</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>MATH 3310</td>
<td>Mathematical Modeling</td>
<td></td>
</tr>
<tr>
<td>MATH 3352</td>
<td>Introduction to Probability</td>
<td></td>
</tr>
<tr>
<td>MATH 4405</td>
<td>Numerical Linear Algebra</td>
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</tr>
<tr>
<td>MATH 4421</td>
<td>Advanced Engineering Mathematics I</td>
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<tr>
<td>MATH 4441</td>
<td>Introduction to Numerical Analysis I</td>
<td></td>
</tr>
<tr>
<td>MATH 4463</td>
<td>Topics in Applied Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 4465</td>
<td>Partial Differential Equations</td>
<td></td>
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</tbody>
</table>