# Bachelors of Science in Mathematics

## MATHEMATICS – LOWER LEVEL CLASSES

<table>
<thead>
<tr>
<th>Area A - Essential Skills (9 hours)</th>
<th>Area E - Social Science (12 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1101 English Composition I</td>
<td>HIST 2111 or 2112 United States History</td>
</tr>
<tr>
<td>ENGL 1102 English Composition II</td>
<td>POLS 1101 American Government</td>
</tr>
<tr>
<td>MATH 1112 or 1113 Plane Trig. or Precalculus</td>
<td>Area E Elective</td>
</tr>
<tr>
<td></td>
<td>Global Perspectives Elective</td>
</tr>
<tr>
<td><strong>Area B - Institutional Options (4 hours)</strong></td>
<td><strong>Area F - Major Field (18 hours)</strong></td>
</tr>
<tr>
<td>Area B Elective</td>
<td>MATH 1371 Computing for Math Sciences</td>
</tr>
<tr>
<td>Literature Elective</td>
<td>MATH 2252 Calculus II</td>
</tr>
<tr>
<td>Area C Elective</td>
<td>MATH 2253 Calculus III</td>
</tr>
<tr>
<td><strong>Area C - Humanities/Fine Arts (6 hours)</strong></td>
<td>MATH 2260 Introduction to Linear Algebra</td>
</tr>
<tr>
<td>Literature Elective</td>
<td>MATH 2270 Differential Equations</td>
</tr>
<tr>
<td>Area D - Natural Science, Math, and Technology (11 hours)</td>
<td><strong>Overflow Hours from Areas D &amp; F</strong></td>
</tr>
<tr>
<td>Lab Science Electives*</td>
<td>MATH 1251 Calculus I</td>
</tr>
<tr>
<td>MATH 1251 Calculus I</td>
<td>MATH 2270 Differential Equations</td>
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</table>

## MATHEMATICS – UPPER LEVEL CLASSES

### Upper Level Core Classes (21 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 2120</td>
<td>3</td>
</tr>
<tr>
<td>Discrete Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 3040</td>
<td>3</td>
</tr>
<tr>
<td>Bridge to Higher Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 3600</td>
<td>3</td>
</tr>
<tr>
<td>Probability and Statistics</td>
<td></td>
</tr>
<tr>
<td>MATH 4150</td>
<td>3</td>
</tr>
<tr>
<td>Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 4261</td>
<td>3</td>
</tr>
<tr>
<td>Mathematical Statistics I</td>
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</tbody>
</table>

### CHOOSE BETWEEN APPLIED MATHEMATICS TRACK AND MATHEMATICS EDUCATION TRACK

#### APPLIED MATHEMATICS TRACK

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 3251</td>
<td>3</td>
</tr>
<tr>
<td>Applied Combinatorics</td>
<td></td>
</tr>
<tr>
<td>MATH 4260</td>
<td>3</td>
</tr>
<tr>
<td>Mathematical Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 4300</td>
<td>3</td>
</tr>
<tr>
<td>Regression Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 4480</td>
<td>3</td>
</tr>
<tr>
<td>Graph Theory</td>
<td></td>
</tr>
<tr>
<td>MATH 4622</td>
<td>3</td>
</tr>
<tr>
<td>Mathematical Statistics II</td>
<td></td>
</tr>
<tr>
<td>MATH 4651</td>
<td>3</td>
</tr>
<tr>
<td>Numerical Analysis I</td>
<td></td>
</tr>
<tr>
<td>MATH 4652</td>
<td>3</td>
</tr>
<tr>
<td>Numerical Analysis II</td>
<td></td>
</tr>
<tr>
<td>MATH 4901</td>
<td>3</td>
</tr>
<tr>
<td>Operations Research I</td>
<td></td>
</tr>
<tr>
<td>MATH 4905</td>
<td>3</td>
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<tr>
<td>Optimization</td>
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</table>

### Electives (12 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math Electives*</td>
<td>12</td>
</tr>
</tbody>
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#### MATHEMATICS EDUCATION TRACK

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 3010</td>
<td>3</td>
</tr>
<tr>
<td>History of Mathematics</td>
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</tr>
<tr>
<td>MATH 3510</td>
<td>3</td>
</tr>
<tr>
<td>Foundations of Geometry</td>
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</tr>
<tr>
<td>MATH 4480</td>
<td>3</td>
</tr>
<tr>
<td>Graph Theory</td>
<td></td>
</tr>
<tr>
<td>MATH 4110</td>
<td>3</td>
</tr>
<tr>
<td>Number Theory</td>
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</tr>
<tr>
<td>EDUC 2110</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 2120</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 2130</td>
<td>3</td>
</tr>
<tr>
<td>Exploring Teaching &amp; Learning</td>
<td></td>
</tr>
<tr>
<td>EDUC 3550*</td>
<td>3</td>
</tr>
<tr>
<td>Assessment for Learning</td>
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</tr>
<tr>
<td>EDUC 3600*</td>
<td>3</td>
</tr>
<tr>
<td>Teaching/Learning in Sec. Math</td>
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</tr>
<tr>
<td>EDUC 3602*</td>
<td>3</td>
</tr>
<tr>
<td>Internship in Secondary School</td>
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</tr>
<tr>
<td>EDUC 3401*</td>
<td>1</td>
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<tr>
<td>Explorations into Teaching</td>
<td></td>
</tr>
<tr>
<td>EDUC 3402*</td>
<td>2</td>
</tr>
<tr>
<td>Making Classroom Connections</td>
<td></td>
</tr>
<tr>
<td>EDUC 4604*</td>
<td>8</td>
</tr>
<tr>
<td>Student Teaching</td>
<td></td>
</tr>
<tr>
<td>SPED 3110*</td>
<td>3</td>
</tr>
<tr>
<td>Intro to the Exceptional Learner</td>
<td></td>
</tr>
</tbody>
</table>

+ Any mathematics course above the 3000 level excluding Early Childhood or Middle Grades Education Courses (MATH 3106, 3110, 3156, 3310, 3320, 3330)

* Requires acceptance into the Education Program

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### Natural Science & Mathematics

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