Bachelor of Science Mathematics (2840)  
Check List

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL EDUCATION</strong></td>
<td>47</td>
<td></td>
</tr>
</tbody>
</table>
| Communication Skills                          | 9       | COM 11103 Fund of Speech Communications  
ENG 11103 Composition I  
ENG 11203 Composition II                       |
| Health & Physical Education                   | 2       | HPE 10101 Human Wellness and Phys Fit  
HPE Activity Course                            |
| Arts/Humanities                               | 9       | Group I. At least one course from:  
ART 10303 Art Appreciation  
FPA 10503 Fine Arts  
MUS 10403 Music Appreciation                   |
| Group II. At least one course from:           |         | ENG 24103 Literary Imagination  
HUM 20103 The Humanities  
PHR 21103 Philosophical Inquiry                |
| Group III. At least one course from:          |         | HIS 13103 World Civilization I  
HIS 13203 World Civilization II                |
| Social Science                                | 6       | Group I. At least one course from:  
ATH 12103 Anthropology  
HIS 12203 American History II (Since 1877)  
POL 11103 American Natural Government          |
| Group I I. At least one course from:          |         | ECO 11103 Contemporary Economics  
PSY 11103 General Psychology  
SOC 11103 Introduction to Sociology            |
| Liberal Arts                                  | 1       |                              |
| Total Hours Needed to Graduate                | 125     |                               |

**Mathematics & Natural Science**  
13 credits

**Group I. Mathematics**  
MTH 15105 Calculus I (Required)

**Group II. Biology. At least one course from**  
BIO 11404 Principles of Biology  
BIO 11001 Plants and People  
BIO 12104 Biology 1

**Group III. Natural Science. At least one course from:**  
CHM 10404 Principles of Chemistry  
NSC 22304 Environmental Science  
PHY 10404 Principles of Physics

**Computer Science**  
4 credits

CS 20104 Computer Programming I (Required)

**BS IN Mathematics**

**Mathematics**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MTH 15204 Calculus II</td>
<td></td>
</tr>
<tr>
<td>MTH 15304 Multivariable Calculus</td>
<td></td>
</tr>
<tr>
<td>MTH 21704 Intro to Probability</td>
<td></td>
</tr>
<tr>
<td>MTH 21803 Intro Statistics</td>
<td></td>
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<tr>
<td>MTH 25403 Discrete Mathematics</td>
<td></td>
</tr>
<tr>
<td>Select one from the following courses</td>
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<tr>
<td>MTH 26603 Number Theory</td>
<td></td>
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<tr>
<td>MTH 27403 College Geometry</td>
<td></td>
</tr>
<tr>
<td>MTH 27703 Differential Equations I</td>
<td></td>
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<tr>
<td>MTH 38403 Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MTH 38603 Abstract Algebra</td>
<td></td>
</tr>
<tr>
<td>MTH 44403 Real Variables</td>
<td></td>
</tr>
</tbody>
</table>

**Total major area hours**  
39

**Math Electives 30000-40000**  
6

**Selected Minor and Personal Electives**  
40

**Total Hours Needed to Graduate**  
125
Bachelor of Science in Mathematics  
Suggested Course Sequence  
Course sequence is dependent upon placement level in mathematics.

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
</table>
| **Freshman** | MTH 15105 Calculus I  
MTH 20104 Computer Programming I  
General Education (7 hours) | MTH 15204 Calculus II  
MTH 25403 Discrete Mathematics  
General Education (9 hours) |
| 16-18 hours per term |                                                                                      |                                                                                   |
| **Sophomore** | MTH 21504 Probability & Statistics I  
MTH 15304 Multivariable Calculus  
General Education (8 hours) | MTH 21603 Probability & Statistics II  
MTH 27703 Differential Equations I  
General Education (7 hours)  
Minor or Personal Electives (3 hours) |
| 16-18 hours per term |                                                                                      |                                                                                   |
| **Junior** | MTH 38403 Linear Algebra  
MTH 38603 Abstract Algebra  
Math Elective (30000-40000 level)  
General Education (3 hours)  
Minor or Personal Electives (7 hours) | MTH 26603 Number Theory  
or, MTH 27403 College Geometry  
General Education (3 hours)  
Minor or Personal Electives (7 hours)  
Math Elective (30000-40000 level) |
| 16-18 hours per term |                                                                                      |                                                                                   |
| **Senior** | MTH 44403 Real Variables  
Min or Personal Electives (13 hours) | Math Elective (30000-40000 level)  
Min or Personal Electives (13 hours) |
| 16-18 hours per term |                                                                                      |                                                                                   |