### BACHELOR OF ARTS/SCIENCE

**MATHEMATICS with SECONDARY CERTIFICATION**

**2015-2016**

<table>
<thead>
<tr>
<th>GENERAL EDUCATION CORE</th>
<th>REQ</th>
<th>COMP</th>
<th>NEED</th>
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<tbody>
<tr>
<td>Written Communication</td>
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<tr>
<td>ENGL 101 &amp; 102</td>
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<tr>
<td>ENGL 109</td>
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<tr>
<td>Oral Communication - Choose 1</td>
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<tr>
<td>COMM 101, 202, 203, 204</td>
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<tr>
<td>Mathematical Ways of Knowing - Choose 1</td>
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<tr>
<td>MATH 170</td>
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<tr>
<td>Humanistic &amp; Artistic Ways of Knowing</td>
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<tr>
<td>ENGL 150, ENGL 257, ENGL 258</td>
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<tr>
<td>ART 100, HUM 101, HUM 150 THEA 101</td>
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<tr>
<td>Scientific Ways of Knowing</td>
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<td>PHYS 211 plus another science from the following:</td>
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<tr>
<td>BIOL 102, 120, 175, 252</td>
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<tr>
<td>CHEM 102, 105, 111</td>
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<tr>
<td>CS 108 or FSCI 101 or GIS 271</td>
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<tr>
<td>GEOL 100, 120</td>
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<tr>
<td>NS 150, 174</td>
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<tr>
<td>Social &amp; Behavioral Ways of Knowing - Choose from 2 disciplines</td>
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<td>ANTH 102, 120, or 170</td>
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<tr>
<td>ECON 201 or 202</td>
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<tr>
<td>GEOG 102</td>
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<tr>
<td>HIST 101, 102, 111, 112</td>
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<tr>
<td>HRPT/SS 184 or 185</td>
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<tr>
<td>POLS 101, 285</td>
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<td>PSYC 101, 205</td>
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<td>SOC 101, 102</td>
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<td>Diversity - Choose 1</td>
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<tr>
<td>ANTH 102, 120, 170, 360</td>
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<td>COMM 345, ENGL 258 or 474, GEOG 102</td>
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<tr>
<td>HIST 101, 102, 111, 112</td>
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<td>HRPT/SS 184</td>
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<tr>
<td>NP 101, 102</td>
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<td>POLS 285, SOC 101</td>
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<tr>
<td>SPAN 101, 102, 201, 202</td>
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<tr>
<td>Integrative Seminar: Ethics &amp; Values</td>
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<tr>
<td>ID 300A-300T (see course descriptions/options in catalog)</td>
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<tr>
<th>FOREIGN/HERITAGE LANGUAGE</th>
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<th>COMP</th>
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<tr>
<th>MAJOR COURSES</th>
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<tbody>
<tr>
<td>CS 111</td>
<td>Foundations of Programming</td>
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<tr>
<td>MATH 175</td>
<td>Calculus II</td>
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<tr>
<td>MATH 186</td>
<td>Discrete Mathematics</td>
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<tr>
<td>MATH 275</td>
<td>Calculus III</td>
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<tr>
<td>MATH 300</td>
<td>Intro/Math. Reasoning</td>
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<tr>
<td>MATH 320</td>
<td>Probability &amp; Statistics</td>
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<td>MATH 340</td>
<td>Linear Algebra</td>
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<td>MATH 386</td>
<td>Postulational Geometry</td>
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<td>MATH 460</td>
<td>Abstract Algebra I</td>
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<td>MATH 480</td>
<td>Real Analysis I</td>
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<td>PHYS 212</td>
<td>Engineering Physics II</td>
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<tr>
<td>MATH ELECTIVE</td>
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<tr>
<td>NS ELECTIVE</td>
<td>- 300 level or higher</td>
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| SECONDARY EDUCATION CERTIFICATION REQUIREMENTS |   |      |      |
| Phase I - Professional Foundations of Education | |      |      |
| Phase II - Professional Studies in Education   | |      |      |
| Phase III - Professional Internship (last semester) | |      |      |
| The following can be taken in Phase I or II | |      |      |
| ED 214 | Princ of Educ/Field Experience | 3 |
| ED 318 | Assessment of Learning | 3 |
| ED 321 | Educational Psychology | 3 |
| ED 330 | Culturally Responsive Classroom | 2 |
| ED 352 | Inclusion Strategies K-12 | 3 |
| ED 445 | Instructional Strategies and Classroom Mgmt | 3 |
| ED 449 | Teaching methods in the Content Area | 3 |
| ED 453 | Media and Technologies for Teach 6-12 | 3 |
| ED 454 | Reading in the Content Area | 3 |
| ED 455 | Professional Internship in Educ 6-12 | 12 |
| TOTAL  | |      |      |

| SUMMARY | |      |      |
| GENERAL EDUCATION | 36 |
| MATH PROGRAM COURSES | 37 |
| PROGRAM ELECTIVES | 7 |
| SECONDARY EDUCATION REQUIREMENTS | 39 |
| GENERAL ELECTIVES | 7 |
| TOTAL | 128 |      |      |