The Bachelor of Science\(^1\) in Mathematics
For Catalog Years 2017-2019
(For the Math Education Emphasis see the specific 4-year plan.)
(For earlier catalogs, see a Math Advisor.)

THIS IS A SAMPLE PROGRAM. EACH STUDENT SHOULD CONSULT A DEPARTMENT ADVISOR TO PREPARE A PROGRAM THAT FITS HIS/HER INDIVIDUAL BACKGROUND AND ACADEMIC NEEDS.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
<td><strong>Spring Semester</strong></td>
</tr>
<tr>
<td>MATH 122A &amp; B or 125</td>
<td>MATH 129</td>
</tr>
<tr>
<td>5/3</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101 or 107 or 109H</td>
<td>CSC 110 or ISTA 130(^4)</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Tier I INDV (150)</td>
<td>ENGL 102 or 108</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Tier I TRAD (160)</td>
<td>Tier I INDV (150)</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Elective (First Year Colloquium)(^2)</td>
<td>Tier I TRAD (160)</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>15/13</td>
<td>16</td>
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</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th><strong>Fall Semester</strong></th>
<th><strong>Spring Semester</strong></th>
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</thead>
<tbody>
<tr>
<td>MATH 223</td>
<td>MATH 323</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>MATH 313</td>
<td>MATH 355</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Lab Science(^3)</td>
<td>Lab Science(^5)</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Tier II Individuals &amp; Societies</td>
<td>Tier II Humanities</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Tier II Arts</td>
<td>Elective</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>17</td>
<td>16</td>
</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th><strong>Fall Semester</strong></th>
<th><strong>Spring Semester</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>400-level Math Course(^4)</td>
<td>400-level Math Course(^4)</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Minor Course(^7)</td>
<td>Minor Courses(^7)</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Elective Courses</td>
<td>Elective Courses</td>
</tr>
<tr>
<td>9</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
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<tr>
<td>15</td>
<td>15</td>
</tr>
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</table>

**Senior Year**

<table>
<thead>
<tr>
<th><strong>Fall Semester</strong></th>
<th><strong>Spring Semester</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>400-level Math Course(^4)</td>
<td>400-level Math Course(^4)</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Minor Courses(^7)</td>
<td>400-level Math Course(^4)</td>
</tr>
<tr>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>Elective Course</td>
<td>Minor Course</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>400-level Math Course(^4) or Elective Course</td>
<td>Elective Courses</td>
</tr>
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<td>3</td>
<td>2/4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
</tr>
<tr>
<td>15</td>
<td>11/13</td>
</tr>
</tbody>
</table>

This degree program requires at least 120 total units, including 42 upper division units (300-400 level)

\(^1\)Application Courses Requirement: For the B.S. degree, students must complete at least 6 units of course work outside the Mathematics Department that require MATH 122B or 125 or a higher mathematics course as a corequisite or prerequisite. See the current official catalog requirements for a list of available courses. This requirement does not apply to the Math Education emphasis.

\(^2\) Honors College Freshmen are required to take a 1 unit honors colloquium in their first semester.

\(^3\) The BS degree in Mathematics is science-intensive. One of the following sequences of science courses is required to satisfy the Tier I General Education requirements: CHEM 141/143 & 142/144; CHEM 151 & 152; CHEM 161/163 & 162/164; MCB 181R/181L & ECOL 182R/182L; PHYS (141 or 161H) & (142 or 241 or 162H or 261H); GEOS 251 & (302 or 304 or 308 or 322); PSIO 201 & 202.

\(^4\)See a Mathematics Faculty Advisor regarding the scheduling of these courses. Selection of 400-level math courses will depend on the emphasis chosen and course offerings. Contact the Undergraduate Math Center at mcenter@math.arizona.edu if you do not know who your faculty advisor is.

\(^5\) To declare your minor, contact an advisor from the appropriate department.

\(^6\) These courses are recommended for most math majors. Other courses that can be used are: CSC 120, 127A, or 227, ECE 175, MIS 301, and PHYS 305. These latter courses may have additional eligibility criteria.

NOTES: Second-semester proficiency in a second language is required for the BS degree. One Tier I or Tier II course may fulfill the Diversity requirement. See advisor if you have questions regarding the Mid-Career Writing Assessment requirement.