

## The Bachelor of Science<sup>1</sup> in Mathematics For Catalog Year 2012-13

(For the Math Education Option 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.**

<u>Fall Semester</u>		<u>Spring Semester</u>	
<b>Freshman Year</b>			
MATH 122A & B or 125	5/3	MATH 129	3
ENGL 101 or 103H or 107 or 109H	3	C SC 127A or ISTA 130	4
Tier I INDV (150)	3	ENGL 102 or 104H or 108	3
Tier I TRAD (160)	3	Tier I INDV (150 diff letter)	3
Elective (First Year Colloquium)	<u>1</u>	Tier I TRAD (160 diff letter)	<u>3</u>
<b>Total</b>	<b>15/13</b>	<b>Total</b>	<b>16</b>
<b>Sophomore Year</b>			
MATH 215	3	MATH 323	3
MATH 223	4	MATH 355	3
Lab Science <sup>2</sup>	4	Lab Science <sup>2</sup>	4
Tier II INDV	3	Tier II Humanities	3
Tier II Arts	<u>3</u>	Elective Course	<u>3</u>
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>16</b>
<b>Junior Year</b>			
400-level Math Course <sup>3</sup>	3	400-level Math Course <sup>3</sup>	3
Minor Course <sup>†</sup>	3	Minor Courses	6
Elective Courses	<u>9</u>	Elective Courses	<u>6</u>
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
<b>Senior Year</b>			
400-level Math Course <sup>3</sup>	3	400-level Math Course <sup>3</sup>	3
Minor Courses	6	400-level Math Course <sup>3</sup>	3
Elective Course	3	Minor Course	3
400-level Math Course <sup>3</sup> or Elective Course	<u>3</u>	Elective Courses	<u>2/4</u>
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>11/13</b>

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

<sup>1</sup>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. Choose courses from the following: CHEM 105A, 105B, 407, 480A, 480B; C SC 345, 422, 433, 436, 437, 445, 453, 460, 473; ECON 332, 361; GEOS 322, 356, 411, 419, 431, 432, 434A, 448; PHYS 131, 132, 141, 142, 161H, 162H, 204, 241, 242; OR courses approved by the faculty advisor. The 'Application Courses Requirement' does not apply to the *Math Education option*.

<sup>2</sup>The BS degree in Mathematics is a science-intensive major. One of the following sequences of science courses is required to satisfy the Tier I General Education requirements: CHEM 151,152; CHEM 105A,106A,105B,106B; MCB 181,181L & ECOL 182R, 182L; PHYS 141 & (142 or 241); PHYS 161H, 162H; GEOS 251 & (302 or 304); PSIO 201, 202.

Note: MATH 215 fulfills the Tier II General Education requirement for Natural Science.

<sup>3</sup>See a Mathematics Faculty Advisor regarding the scheduling of these courses. Selection of 400-level math courses will depend on the option chosen and course offerings. Contact the Undergraduate Math Center at [mcenter@math.arizona.edu](mailto:mcenter@math.arizona.edu) if you do not know who your faculty advisor is.

<sup>†</sup> To declare your minor, see an advisor from the appropriate department.

NOTE: 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.