



# The Bachelor of Science<sup>1</sup> in Mathematics For Catalog Year 2021

(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 THEIR 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 107 or 109H	3	CSC 110 or ISTA 130 <sup>‡</sup>	4
Tier I INDV (150)	3	ENGL 102 or 108	3
Tier I TRAD (160)	3	Tier I INDV (150)	3
MATH 195M <sup>2</sup>	1	Tier I TRAD (160)	3
	<b>Total 15/13</b>		<b>Total 16</b>
<b>Sophomore Year</b>			
MATH 223	4	MATH 323	3
MATH 313	3	MATH 355	3
Lab Science <sup>3</sup>	4	Lab Science <sup>3</sup>	4
Tier II Individuals & Societies	3	Tier II Humanities	3
Tier II Arts	3	MATH 396L <sup>*</sup>	1
	<b>Total 17</b>		<b>Total 14</b>
<b>Junior Year</b>			
400-level Math Course <sup>4</sup>	3	400-level Math Course <sup>4</sup>	3
Minor Course <sup>†</sup>	3	Minor Courses <sup>†</sup>	6
Elective Courses	9	Elective Courses	6
	<b>Total 15</b>		<b>Total 15</b>
<b>Senior Year</b>			
400-level Math Course <sup>4</sup>	3	400-level Math Course <sup>4</sup>	3
Minor Courses <sup>†</sup>	6	400-level Math Course <sup>4</sup>	3
Elective Course	3	Minor Course	3
400-level Math Course <sup>4</sup> or Elective Course	3	Elective Courses	4/6
	<b>Total 15</b>		<b>Total 13/15</b>

**This degree program requires at least 120 total units, including 42 upper division units (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. See the current official catalog requirements for a list of available courses. This requirement does not apply to the *Math Education emphasis*.

<sup>2</sup>MATH 195M is an optional one-unit colloquium for new majors. Other programs, including Honors, ASEMS, and more, may require 1 unit colloquia in certain semesters.

<sup>3</sup>The BS degree in Mathematics is science-intensive. One of the following sequences of science courses is required to satisfy 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.

<sup>4</sup>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](mailto:mcenter@math.arizona.edu) if you do not know who your faculty advisor is.

<sup>\*</sup>MATH 396L is a 1-unit supplement to 323 and is required for students earning a C or lower in 313. Students who earn a D in 313 must take another proof-based course before 323.

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

<sup>‡</sup>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.



# The Bachelor of Arts in Mathematics For Catalog Year 2021

(For the 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 THEIR 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 107 or 109H	3	CSC 110 or ISTA 130 <sup>‡</sup>	4
Tier I INDV (150)	3	ENGL 102 or 108	3
Second Language	4	Tier I TRAD (160)	3
MATH 195M <sup>1</sup>	1	Second Language	4
<b>Total</b>	<b>16/14</b>	<b>Total</b>	<b>17</b>
<b>Sophomore Year</b>			
MATH 223	4	MATH 323	3
MATH 313	3	MATH 355	3
Tier I NATS (170)	3	MATH 396L*	1
Tier I TRAD (160)	3	Tier I INDV (150)	3
Tier II Arts	3	Tier I NATS (170)	3
		Tier II Indiv	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
<b>Junior Year</b>			
400-level Math Course <sup>2</sup>	3	400-level Math Course <sup>2</sup>	3
Minor Course <sup>†</sup>	3	Minor Courses <sup>†</sup>	6
Tier II Humanities	3	Tier II Natural Science	3
Elective Courses	6	Elective Courses	3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
<b>Senior Year</b>			
400-level Math Course <sup>2</sup>	3	400-level Math Course <sup>2</sup>	3
400-level Math Course <sup>2</sup>	3	Minor Courses	6
Minor Courses <sup>†</sup>	6	400-level Math Course <sup>2</sup>	
Elective Course	2/4	or Elective Course	3
<b>Total</b>	<b>14/16</b>	<b>Total</b>	<b>12</b>

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

<sup>1</sup> MATH 195M is an optional one-unit colloquium for new majors. Other programs, including Honors, ASEMS, and more, may require 1 unit colloquia in certain semesters.

<sup>2</sup> See a Mathematics Faculty Advisor regarding the scheduling of these courses. Selection of 400-level courses will depend on the emphasis chosen and course offerings. Contact the Math Center at [mcenter@math.arizona.edu](mailto:mcenter@math.arizona.edu) if you do not know who your faculty advisor is.

\*MATH 396L is a 1-unit supplement to 323 and is required for students earning a C or lower in 313. Students who earn a D in 313 must take another proof-based course before 323.

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

<sup>‡</sup> 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: Fourth-semester proficiency in a second language is required for the BA degree.

One Tier I or Tier II course may fulfill the Diversity requirement.

See an academic advisor if you have questions regarding the Mid-Career Writing Assessment requirement.