The Bachelor of Science (B.S.) in Mathematics
For Catalog Year 2023

(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.

Fall Semester		Spring Semester	
Freshman Year			
MATH 122A & B	5	MATH 129	3
ENGL 101 or 107 or 109H	3	CSC 110 or ISTA 130[1]	4
GE Core	3	ENGL 102 or 108	3
GE Core	3	GE Core	3
MATH 195M[2]	1	GE Core	3
UNIV 101	1		
Total	**16**	**Total**	**16**
Sophomore Year			
MATH 223	4	MATH 323	3
MATH 313	3	MATH 355	3
Lab Science[3]	4	MATH 396L[4]	1
Second Language	4	Lab Science[3]	4
		Second Language	4
Total	**15**	**Total**	**15**
Junior Year			
400-level Math Course[5]	3	400-level Math Course[5]	3
Minor Course[6]	3	Minor Courses[6]	6
GE Core	3	GE Core	3
GE Core	3	UNIV 301	1
Elective Course	3	Mathematics Application Course[3]	3
Total	**15**	**Total**	**16**
Senior Year			
400-level Math Course[5]	3	400-level Math Course[5]	3
Minor Courses[6]	6	400-level Math Course[5]	3
Elective Course	3	Minor Course[6]	3
400-level Math Course[5] or Elective Course	3	Elective Courses	3
Total	**15**	**Total**	**12**

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

[1] CSC 110, ISTA 130, ECE 175, or CHEE 205 are recommended for most math majors. Other courses that can be used are: CSC 120, MIS 301, NSCS 311, and PHYS 305. These latter courses may have additional eligibility criteria.

[2] 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.

[3] BS degree requirements for Mathematics Majors: 1. Laboratory Science: Two of the following lab science courses are 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, 161H, 142, 241, 162H, 261H; GEOS 251, 302, 304, 308, 322; PSIO 201, 202. Note that for courses with separate registration for lecture and lab, BOTH components must be completed. 2. Application Course: students must complete at least 3 units of course work outside the Mathematics Department that require calculus (or a higher level math 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*. 3. Second Language: Second-semester proficiency in a second language is required for the BS degree.

[4] 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.

[5] 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.

[6] To declare your minor, contact an advisor from the appropriate department.

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

The Bachelor of Arts (B.A.) in Mathematics
For Catalog Year 2023

(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.

Freshman Year

Fall Semester		Spring Semester	
MATH 122A & B	5	MATH 129	3
ENGL 101 or 107 or 109H	3	CSC 110 or ISTA 130[1]	4
GE Core	3	ENGL 102 or 108	3
GE Core	3	GE Core	3
UNIV 101	1	GE Core	3
MATH 195M[2]	1		
Total	**16**	**Total**	**16**

Sophomore Year

MATH 223	4	MATH 323	3
MATH 313	3	MATH 355	3
Second Language	4	MATH 396L[3]	1
GE Core	3	Second Language	4
GE Core	3	GE Core	3
Total	**17**	**Total**	**14**

Junior Year

400-level Math Course[4]	3	400-level Math Course[4]	3
400-level Math Course[4]	3	Minor Course[5]	3
Minor Course[5]	3	Second Language	4
UNIV 301	1	Elective Courses	6
Second Language	4		
Total	**14**	**Total**	**16**

Senior Year

400-level Math Course[4]	3	400-level Math Course[4]	3
Minor Courses[5]	6	Minor Courses[5]	6
Elective Courses	6	400-level Math Course[4] or Elective Course	3
Total	**15**	**Total**	**12**

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

[1] CSC 110, ISTA 130, ECE 175, or CHEE 205 are recommended for most math majors. Other courses that can be used are: CSC 120, MIS 301, NSCS 311, and PHYS 305. These latter courses may have additional eligibility criteria.

[2] 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.

[3] 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.

[4] 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 if you do not know who your faculty advisor is.

[5] To declare your minor, contact an advisor from the appropriate department.

NOTES: Fourth-semester proficiency in a second language is required for the BA degree.
See an academic advisor if you have questions regarding the Mid-Career Writing Assessment requirement.