The Bachelor of Science (B.S.) in Mathematics
For Catalog Years 2022 - 2024

(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]			Elective Courses		3
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] BS degree requirements for Mathematics Majors: 1. Laboratory Science: <u>Two</u> of the following lab science courses are required to satisfy requirements: CHEM 141&143, 142&144, 151, 152, 161&163, 162&164, 181, 182; MCB 181R&181L; ECOL 182R&182L; PHYS 141, 161H, 142, 241, 162H, 261H; GEOS 251, 302, 304, 308, 322; HWRS 350; 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 <u>units</u> 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 <u>not</u> 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 math-mcenter@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 Years 2022 - 2024

(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.

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	
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 math-mcenter@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.