

## The Bachelor of Science (B.S.) in Mathematics For Catalog Year 2022

(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 <sup>1</sup>		4
GE Core		3	ENGL 102 or 108		3
GE Core		3	GE Core		3
MATH 195M <sup>2</sup>		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 <sup>3</sup>		4	MATH 396L <sup>4</sup>		1
Second Language		4	Lab Science <sup>3</sup>		4
0 0			Second Language		4
	Total	15		Total	15
Junior Year					
400-level Math Course <sup>5</sup>		3	400-level Math Course <sup>5</sup>		3
Minor Course <sup>6</sup>		3	Minor Courses <sup>6</sup>		6
GE Core		3	GE Core		3
GE Core		3	UNIV 301		1
Elective Course		3	Mathematics Application Course <sup>3</sup>	_	3
	Total	15		Total	16
Senior Year					
400-level Math Course <sup>5</sup>		3	400-level Math Course <sup>5</sup>		3
Minor Courses <sup>6</sup>		6	400-level Math Course <sup>5</sup>		3
Elective Course		3	Minor Course <sup>6</sup>		3
400-level Math Course <sup>5</sup>			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)

<sup>1</sup>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.

<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> 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; 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 <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 <u>Math Education emphasis</u>. 3. Second Language: Second-semester proficiency in a second language is required for the BS degree.

<sup>4</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>5</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 <u>mcenter@math.arizona.edu</u> if you do not know who your faculty advisor is.

<sup>6</sup> 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 2022

(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> Freshman Year			Spring Semester		
MATH 122A & B		5	MATH 129		3
ENGL 101 or 107 or 109H		3	CSC 110 or ISTA 130 <sup>1</sup>		4
GE Core		3	ENGL 102 or 108		3
GE Core		3	GE Core		3
UNIV 101		1	GE Core		3
MATH 195M <sup>2</sup>	_	1		_	
	Total	16		Total	16
Sophomore Year					
MATH 223		4	MATH 323		3
MATH 313		3	MATH 355		3
Second Language		4	MATH 396L <sup>3</sup>		1
GE Core		3	Second Language		4
GE Core	_	3	GE Core	_	3
	Total	17		Total	14
Junior Year					
400-level Math Course <sup>4</sup>		3	400-level Math Course <sup>4</sup>		3
400-level Math Course <sup>4</sup>		3	Minor Course <sup>5</sup>		3
Minor Course <sup>5</sup>		3	Second Language		4
UNIV 301		1	Elective Courses		6
Second Language	_	4		_	
	Total	14		Total	16
Senior Year					
400-level Math Course <sup>4</sup>		3	400-level Math Course <sup>4</sup>		3
Minor Courses <sup>5</sup>		6	Minor Courses <sup>5</sup>		6
Elective Courses		6	400-level Math Course <sup>4</sup>		
	_		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)

<sup>1</sup> 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.

<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> 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>4</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 <u>mcenter@math.arizona.edu</u> if you do not know who your faculty advisor is.
- <sup>5</sup> 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.