

MATHEMATICS, BACHELOR OF SCIENCE

Code	Title	Semester Hours
Core Curriculum for STEM Majors (MATH 1113 or 1211 required for Area A2) (http://catalog.asurams.edu/undergraduate/core-curriculum/)¹		43
Area F: Courses Related to Major		
MATH 1211	Calculus I	4
MATH 2212	Calculus II	4
MATH 2411	Introduction to Statistics	3
MATH 2111	Linear Algebra	3
CSCI 1201	Introduction to Computer Science	3
Area G - Major Requirements		
MATH 2213	Calculus III	4
MATH 3101	Introduction to Number Theory	3
MATH 3112	Discrete Mathematics	3
MATH 3211	Ordinary Differential Equations	3
MATH 3213	Modern Geometry	3
MATH 3314	Math Statistics	3
MATH 3411	Statistical Methods	3
MATH 3423	Introduction to Operations Research	3
MATH 4111	Modern Algebra I	3
MATH 4112	Modern Algebra II	3
MATH 4211	Elements of Analysis I	3
MATH 4212	Elements of Analysis II	3
MATH 4214	Introduction to Complex Variables	3
MATH 4215	Numerical Analysis	3
MATH 4921	Senior Project I	1
MATH 4922	Senior Project II	2
Major Electives		12
MATH 3413	Introduction to Combinatorics	
MATH 4511	History of Mathematics	
MATH 4313	Topology	
MATH 4220	Partial Differential Equations	
MATH 4330	Math of Compound Interest	
MATH 4332	Math of Demography	
Free elective		3
First-Year and Wellness Course Requirements Outside the Core		
ASU 1101	First Year Experience: Pathways to Success	1
HEDP, WELL	Health & Wellness Requirement ²	2
Total Semester Hours		124

¹ Students are required to complete MATH 1113 Pre-Calculus in Area A2 or Area D with a minimum grade of "C".

² The health & wellness requirement may be fulfilled by taking one - two (2) credit hour health or wellness course OR two one (1) credit hour health or wellness activity courses.

The Bachelor of Science degree in Mathematics with a minor is for those students who want to add a minor in another area to their degree in mathematics. In addition to the general institutional requirements, the

major completes 60 semester hours in major courses which include 42 semester hours in mathematics and 18 semester hours in a minor.

All majors and minors in the department must achieve a grade of "C" or better in all mathematics, science, computer science, and business courses. A cumulative grade point average of at least 2.25 is required for graduation.

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MATH 4921	Senior Project I	1
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Courses Toward Minor		18
First-Year and Wellness Course Requirements Outside the Core		
ASU 1101	First Year Experience: Pathways to Success	1
HEDP, WELL	Health & Wellness Requirement ²	2
Total Semester Hours		124

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