

MATHEMATICS, BACHELOR OF SCIENCE

Requirements

General Requirements

Code	Title	Credits
Core Curriculum		42
Required Support Courses		9
Major (Required) Courses		45
Electives		24
Total Credits		120

- 36 advanced credit hours required for degree (30 advance hours from A&M-SA for residency)
- Completion of this degree plan that students have an overall 2.5 GPA in upper-level courses with at most two Ds.
- CIP Code: 27.0101

All students must complete the University's Core Curriculum (<https://catalog.tamusa.edu/undergraduate/academic-policies-procedures/core-curriculum/>) and the specific requirements of the major. In some cases, a course that is required for a major may also be counted towards the Core Curriculum.

Code	Title	Credits
Core Curriculum		
ENGL 1301	Composition I	3
ENGL 1302	Composition II	3
or ENGL 2311	Technical Writing	
MATH 1314	College Algebra	3
PHYS 1301	General Physics I	3
PHYS 1302	General Physics II	3
Lang/Phil/Culture		3
Creative Arts		3
American History		3
American History		3
Government/Political Science		3
Government/Political Science		3
Social & Behavioral Sciences		3
SPCH 1315	Fundamentals of Public Speaking	3
or SPCH 1318	Interpersonal Communication	
MATH 2312	Pre-Calculus	3
Subtotal:		42
Required Support Courses		
MATH 1014	College Algebra Recitation	0
PHYS 1101	General Physics Lab I	1
PHYS 1102	General Physics Lab II	1
CSCI 1436	Programming Fundamentals I	4
UNIV 1301	First Year Seminar	3
Subtotal:		9
Major (Required) courses ¹		
MATH 2313	Calculus I	3

MATH 2113	Calculus I Lab	1
MATH 2314	Calculus II	3
MATH 2114	Calculus II Lab	1
MATH 3320	Differential Equations	3
MATH 3325	Intro to Mathematical Proofs	3
MATH 3340	Linear Algebra with Appl	3
MATH 3370	Discrete Mathematics	3
MATH 3415	Calculus III	4
MATH 4303	Statistical Methods	3
MATH 4321	Real Variables	3
MATH 4340	Modern Algebra	3
Upper Division MATH Elective ²		3
Upper Division MATH Elective ²		3
Upper Division MATH Elective ²		3
Upper Division MATH Elective ²		3
Subtotal:		45
Electives		
As needed to complete 120 credit hours required		24
Total Credits		120

¹ 2.5 overall GPA for major

² MATH 33XX or MATH 43XX

Plan of Study

This suggested plan of study is intended to be used as a guide in conjunction with official degree requirements outlined in the catalog. While this plan demonstrates a course of study that covers eight semesters, each student's academic path is unique and your timeline may look different. Students should regularly consult with academic advisors as they plan their course schedules as course offerings may vary.

First Year

First Semester	Credits	
MATH 1314	College Algebra	3
MATH 1014	College Algebra Recitation	0
ENGL 1301	Composition I	3
Creative Arts		3
SPCH 1315	Fundamentals of Public Speaking	3
or SPCH 1318	or Interpersonal Communication	
HIST 1301	US History to 1865	3
Credits		15

Second Semester

MATH 2312	Pre-Calculus	3
ENGL 1302	Composition II	3
or ENGL 2311	or Technical Writing	
Lang/Phil/Culture		3
UNIV 1301	First Year Seminar	3
HIST 1302	US History from 1865	3
Credits		15

Second Year

First Semester	Credits	
MATH 2313	Calculus I	3
MATH 2113	Calculus I Lab	1

PHYS 1301	General Physics I	3
PHYS 1101	General Physics Lab I	1
Social and Behavioral Sciences		3
GOVT 2305	Federal Government	3
Elective		3
Credits		17
Second Semester		
MATH 2314	Calculus II	3
MATH 2114	Calculus II Lab	1
PHYS 1302	General Physics II	3
PHYS 1102	General Physics Lab II	1
GOVT 2306	Texas Government	3
Elective		3
Credits		14
Third Year		
First Semester		
MATH 3415	Calculus III	4
MATH 3325	Intro to Mathematical Proofs	3
MATH 3340	Linear Algebra with Appl	3
CSCI 1436	Programming Fundamentals I	4
Elective		3
Credits		17
Second Semester		
MATH 3320	Differential Equations	3
MATH 3370	Discrete Mathematics	3
Upper Division MATH Elective		3
Upper Division MATH Elective		3
Elective		3
Credits		15
Fourth Year		
First Semester		
MATH 4303	Statistical Methods	3
MATH 4321	Real Variables	3
Upper Division MATH Elective		3
Elective		3
Elective		3
Credits		15
Second Semester		
MATH 4340	Modern Algebra	3
Upper Division MATH Elective		3
Elective		3
Elective		3
Credits		12
Total Credits		120