

MATHEMATICS WITH TEACHER CERTIFICATION, BACHELOR OF SCIENCE

Requirements

General Requirements

Code	Title	Credits
Core Curriculum		42
Required Support Courses		9
Major (Required) Courses		39
Teacher Certification Required Courses		28
Electives		2
Total Credits		120

- Completion of this Degree Requires Admission to the Educator Preparation Program (EPP)
- 36 upper-division credit hours required for degree
- 30 advance hours from A&M-SA for residency

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 ^{1,2}		
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 3360	Modern Geometry	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
MATH 4350	Probability	3
Subtotal:		39

Teacher Certification Required Courses ^{3,4}		
EDCI 3303	Pedagogy I: Theory & Design	3
EDCI 3304	Pedagogy II: Instructional Practice	3
EDCI 3309	Educator Roles & Responsibilities	3
EDCI 3320	Analyzing Issues of Diversity	3
EDCI 3348	Managing the Learning Environment	3
EDCI 4301	Pedagogy III: Curriculum Planning	3
EDCI 4357	Math Methods: Middle School and Secondary Levels	3
EDFR 3110	Field Lab Residency I	1
EDFR 4623	Scndry Clinic Tch:Fld Res III (Unpaid semester at A&M-SA)	6
Subtotal:		28

Electives		
As needed to complete 120 credit hours required		2
Total Credits		120

¹ 2.75 overall GPA for major

² 'C' or higher required in MATH courses

³ 2.75 overall GPA

⁴ 'C' or higher required in EDXX courses

Students who do not meet teacher preparation and certification requirements may be required to switch to a non-certification degree program.

Completion of 45 hours; all with a 'C' or better; Cumulative GPA of 2.75; Qualifying scores in Reading, Writing and Mathematics.

Code	Title	Credits
ENGL 1301	Composition I	3
ENGL 2311	Technical Writing	3
MATH 1314	College Algebra (at least)	3
An additional math course		
HIST 1301	US History to 1865	3
HIST 1302	US History from 1865	3
SPCH 1315	Fundamentals of Public Speaking	3
or SPCH 1318	Interpersonal Communication	
2 Life & Physical Sciences		

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

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

Credits 14

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
EDCI 3309	Educator Roles & Responsibilities	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
EDCI 3303	Pedagogy I: Theory & Design	3
Elective		2

Credits 15

Second Semester

MATH 3320	Differential Equations	3
MATH 3360	Modern Geometry	3
CSCI 1436	Programming Fundamentals I	4
EDCI 3320	Analyzing Issues of Diversity	3

EDCI 3304	Pedagogy II: Instructional Practice	3
Credits		16

Fourth Year

First Semester

MATH 4303	Statistical Methods	3
MATH 4321	Real Variables	3
MATH 4350	Probability	3
EDCI 3348	Managing the Learning Environment	3

Credits 12

Second Semester

MATH 3370	Discrete Mathematics	3
MATH 4340	Modern Algebra	3
EDCI 4357	Math Methods: Middle School and Secondary Levels	3
EDCI 4301	Pedagogy III: Curriculum Planning	3
EDFR 3110	Field Lab Residency I	1

Credits 13

Third Semester

EDFR 4623	Scndry Clinic Tch:Fld Res III	6
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Credits 6

Total Credits 120