

BACHELOR OF ARTS WITH A MAJOR IN MATHEMATICS WITH GRADES 7-12 CERTIFICATION (BA)

Degree Requirements Hours Required

A minimum of 120 semester credit hours (SCH): 45 hours must be advanced, and fulfillment of degree requirements as specified in the "Requirements for Graduation (<https://catalog.tamtu.edu/undergraduate-information/academic-regulations/>)" section of this catalog.

Requirements

Code	Title	Semester Credit Hours
[University Core Curriculum] (https://catalog.tamtu.edu/appendix-a-core-curriculum-optional-course-information/)		
Select 42 SCH as outlined in the suggested plans and as specified in the "Requirements for Graduation"		42
Life & Physical Science Lab		
Select 1 SCH compatible with a Life & Physical Science course		1
Foreign Language		
Select 6 SCH in foreign language coursework (not credit by exam). Students may take 6 SCH in Spanish at the level determined by the Spanish Placement Exam or by satisfying required pre-requisites. Students may take 6 SCH of another foreign language at the introductory level or above. This requirement may also be met by earning 6 SCH in any subject while participating in a TAMU-approved Study Abroad program while living for at least 4 weeks in another country.		6
Major		
Select 1 SCH excess of Mathematics taken as part of the core		1
MATH 2414	Calculus II	4
MATH 2415	Calculus III	4
MATH 3310	Introduction to Linear Algebra	3
MATH 3325	Geometry	3
MATH 3330	Ordinary Diff Equations	3
MATH 3360	Statistical Analysis	3
MATH 3365	Discrete Mathematics	3
MATH 4310	Abstract Algebra I	3
MATH 4335	Advanced Calculus	3
MATH 4390	Math in Middle & High School	3
Professional Education Core		
EDCI 1102	Intro to Teaching Profession	1
EDCI 2224	Cultural Foundations of Ed	2
EDCI 3200	Survey of Content Know & Exper	2
EDCI 3301	Assessment for Instruc Design	3
EDCI 3302	Teaching Eng Lang Learners	3

EDCI 3315	Impl Eff Inst Strat Div Lrnrs	3
EDCI 4310	Engaging Learners	3
EDCI 4693	Clinical Teaching	6
EDSE 4350	Inc Pract Ch&Yth W/Disablt	3
Additional Requirements		
EDRD 3320	Content Reading	3
MATH 3371	Communications in Mathematics	3
Computer Science		
CSCE 1336	Fundamentals of Programming	3
CSCE 1136	Funds of Programming Lab	1
General Electives		
Select 2 SCH at the 3000-4000 level		2
Total Semester Credit Hours		120

* BA/MA OPTION: See Combined BA/MA Programs in this section

Four-Year Degree Plan

Following is a suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment; responsible for reviewing the **Program of Study Requirements**, meeting all course prerequisites, and **writing intensive course (WIN)** requirements for graduation. See Academic Regulations-Undergraduate online. (<https://catalog.tamtu.edu/undergraduate-information/academic-regulations/>)

	Semester Credit Hours	
Freshman		
Fall		
ENGL 1301	English Composition I	3
HIST 1301	The US to 1877	3
MATH 2413	Calculus I	4
PSYC 2314	Lifespan Growth&Development	3
UNIV 1201	Learn a Global Context I	2
Creative Arts		3
Semester Credit Hours		18
Spring		
ENGL 1302	English Composition II	3
HIST 1302	The US Since 1877	3
MATH 2414	Calculus II	4
EDCI 1102	Intro to Teaching Profession	1
UNIV 1302	Signature Course	3
Semester Credit Hours		14
Sophomore		
Fall		
PSCI 2305	American National Government	3
EDCI 2224	Cultural Foundations of Ed	2
MATH 2415	Calculus III	4
MATH 3365	Discrete Mathematics	3
Life & Physical Science		3
Life & Physical Science Lab		1

Language, Philosophy, & Culture	3
Semester Credit Hours	19

Spring

PSCI 2306	American State Government	3
MATH 3310	Introduction to Linear Algebra	3
EDCI 3200	Survey of Content Know & Exper	2
CSCE 1336	Fundamentals of Programming	3
CSCE 1136	Funds of Programming Lab	1
Life & Physical Science		3
Life & Physical Science Lab		1
Semester Credit Hours		16

Junior

Fall

MATH 3371	Communications in Mathematics	3
MATH 3360	Statistical Analysis	3
MATH 3330	Ordinary Diff Equations	3
EDCI 3301	Assessment for Instruc Design	3
EDCI 3302	Teaching Eng Lang Learners	3
Foreign Language/Study Abroad		3
Semester Credit Hours		18

Spring

EDRD 3320	Content Reading	3
MATH 3325	Geometry	3
MATH 4310	Abstract Algebra I	3
MATH 4335	Advanced Calculus	3
Foreign Language/Study Abroad		3
Semester Credit Hours		15

Senior

Fall

MATH 4390	Math in Middle & High School	3
EDCI 3315	Impl Eff Inst Strat Div Lrnrs	3
EDCI 4310	Engaging Learners	3
Advanced General Elective		2
Semester Credit Hours		11

Spring

EDSE 4350	Inc Pract Ch&Yth W/Disablts	3
EDCI 4693	Clinical Teaching	6
Semester Credit Hours		9

Total Semester Credit Hours 120

* Students must apply for admission to the College of Education while enrolled in EDCI 3224.

Students are admitted to student teaching only after passing the certification exam to teach secondary mathematics.

Actual degree plans may vary depending on availability of courses in a given semester.

Some courses may require prerequisites not listed.