

BACHELOR OF ARTS IN MATHEMATICS (4-8 MATHEMATICS CERTIFICATION)

Web Site: <https://twu.edu/mathematics/undergraduate-programs/>

Degree Requirements

Total Semester Credit Hours (SCH): 126

Major: 36 SCH Required Minor: 29 SCH

Program Code: MATH.BA CIP Code: 27.0101.00

Texas Core Curriculum

Code	Title	SCHs
ENG 1013	Composition I	3
ENG 1023	Composition II	3
Mathematics		3
Life & Physical Sciences		6
Language, Philosophy, & Culture		3
Creative Arts		3
HIST 1013	History of the United States, 1492-1865	3
HIST 1023	History of the United States, 1865 to the Present	3
POLS 2013	U.S. National Government	3
POLS 2023	Texas Government	3
Social & Behavioral Sciences		3
CAO: Women's Studies		3
CAO: First Year Seminar, Wellness or Mathematics		3
Total SCHs		42

Courses Required for Major

Code	Title	SCHs
Required Mathematics Courses		
MATH 1533	Mathematics Concepts II	3
MATH 1543	Mathematics Concepts III	3
MATH 2014	Calculus I	4
MATH 3003	A Survey of Geometry	3
MATH 3063	Linear Algebra	3
or MATH 3073	Matrix Methods	
MATH 4003	Mathematical Concepts in the Educational Setting	3
MATH 4203	Problem Solving in the Mathematics Classroom	3
MATH 4303	Algebra in the Mathematics Classroom	3
MATH 4313	Geometry in the Mathematics Classroom	3
Choose at least 8 SCH from these MATH electives:		8
MATH 2024	Calculus II	
MATH 3013	Discrete Mathematics	
MATH 3053	Abstract Algebra	

MATH 3083	Elementary Number Theory	
MATH 3104	Calculus III	
MATH 4013	Probability and Statistics	
Total SCHs		36

Departmental Requirements

Code	Title	SCHs
CSCI 3002	Advanced Computing Technology	2
CSCI 3013	Applied Computational Thinking	3
BIOL 1023	Environmental Biology (recommended)	3
SCI 1114	Sustainable Physical Science (recommended)	4
SPAN 1013	Elementary Spanish I	3
or EDBE 3453	Teaching English As a Second Language	
SPAN 1023	Elementary Spanish II	3
or EDBE 3053	Theories of Second Language Acquisition for ESL and Bilingual Teachers	
Total SCHs		18

Professional Education Studies

Admission to the Educator Preparation Program is required. Students must apply for admission into the Educator Preparation Program prior to enrolling in EDUC 3003/EDUC 3482, EDUC 4113/EDUC 4243, and EDUC 4946. Information is available from the Office of Educator Preparation Services (<https://twu.edu/teacher-certification/>).

Code	Title	SCHs
Pedagogical and Professional Responsibility		
EDUC 2003	Schools and Society	3
EDUC 3003	Learning Theory and Development	3
EDUC 3482	Teaching Diverse Learners Through Technology Integration	2
EDUC 4113	Design and Implementation of Instruction and Assessment	3
EDUC 4243	Classroom Environment and Management	3
EDUC 4946	Clinical Student Teaching	6
Related Studies in Education		
EDSP 3203	Learners with Exceptionalities	3
READ 3013	Literacy and Learning across the Curriculum	3
READ 3423	Literacy Foundations: 4-8	3
Total SCHs		29

Notes:

- EDUC 2003 may be taken at a community college. Check with the Office of Educator Preparation Services (<https://twu.edu/teacher-certification/>) to make sure the course has the equivalent number.
- EDUC 4113 and EDUC 4243 must be taken during the same semester.