

# BACHELOR OF SCIENCE IN MATHEMATICS (4-8 MATHEMATICS CERTIFICATION)

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

## Degree Requirements

Total Semester Credit Hours (SCH): 126

Major: 42 SCH Required Minor: 29 SCH

Program Code: MATH.BS.4-8EDUC 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
<b>Required Mathematics Courses</b>		
MATH 1533	Mathematics Concepts II	3
MATH 1543	Mathematics Concepts III	3
MATH 2014	Calculus I	4
MATH 2024	Calculus II	4
MATH 3104	Calculus III	4
MATH 3013	Discrete Mathematics	3
or MATH 3083	Elementary Number Theory	
MATH 3053	Abstract Algebra	3
MATH 3063	Linear Algebra	3
or MATH 3073	Matrix Methods	
MATH 4003	Mathematical Concepts in the Educational Setting	3
MATH 4013	Probability and Statistics	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
Total SCHs		42

### Departmental Requirements

Code	Title	SCHs
CSCI 3002	Advanced Computing Technology	2
CSCI 3013	Applied Computational Thinking	3
BIOL 1023	Environmental Biology	3
SCI 1114	Sustainable Physical Science	4
Elective		3
Total SCHs		15

### 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
<b>Pedagogical and Professional Responsibility</b>		
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
<b>Related Studies in Education</b>		
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.