

BACHELOR OF SCIENCE IN MATHEMATICS (7-12 MATHEMATICS CERTIFICATION)

Total Semester Credit Hours (sch): 120-123
Major: 42 sch Required Minor: 20 sch
 MATH.BS CIP Code: 27.0101.00

Admissions:

Please refer to the Admission section of this catalog regarding acceptance into TWU.

To obtain acceptance into the undergraduate Educator Preparation Program, you must have:

(All criteria required before taking EDUC 3003, EDUC 3482, EDUC 4113, EDUC 4243, and Clinical Student Teaching)

- Completion of EDUC 2003 (C or better)
- Cumulative GPA of 2.75
- Demonstrate basic skills in reading, written communication, and mathematics by meeting the requirements of the Texas Success Initiative;
- Testing Requirements (please note: all testing requirements are subject to change)
 - TASP/THEA Scores: Reading 260, Math 240, Writing 240; OR
 - Accuplacer Scores: Reading 80, Math 65, Writing 82/6; OR
 - ACT Scores: Verbal 19, Math 19, Composite 23; OR
 - SAT Scores:
 - Prior to March 5, 2016 - Verbal 500, Math 500, Composite 1070;
 - On/After March 5, 2016 – EBRW 480, Math 530

ACT and SAT scores cannot be more than five years old

- Successful completion of a pre-admission interview with assigned faculty advisor
- Minimum of 12 to 15 semester credit hours in the subject-specific content area for the certification sought
- Signed application for admission to the Educator Preparation Program
- Signed Commitment Contract acknowledging awareness and understanding of the Dispositions Policy and Educators' Code of Ethics
- Submit a non-refundable Texas Education Agency Fee
- Acknowledgment and acceptance of admission to the Educator Preparation Program

Students must maintain the admission requirements to remain a student in the TWU Education Preparation Program.

Degree Requirements

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
GOV 2013	U.S. National Government	3
GOV 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 1323	Elementary Analysis III	3
MATH 1713	Elementary Statistics II	3
MATH 2014	Calculus I	4
MATH 2024	Calculus II	4
MATH 3104	Calculus III	4
MATH 3013	Discrete Mathematics	3
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
Other Requirements		
CSCI 3002	Advanced Computing Technology	2
CSCI 3013	Applied Computational Thinking	3
EDSP 4203	Learners with Exceptionalities	3
READ 3013	Literacy and Learning across the Curriculum	3
Electives		5
Minor - Teaching		
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 4126	Student Teaching: Mathematics	6
Total SCHs		78

All students must complete 3 semester credit hours in approved Global Perspectives courses (graduation requirement).

Plan of Study

First Year

Fall		TCCN	SCHs
MATH 1313	Elementary Analysis II	MATH 1316	3
ENG 1013	Composition I	ENGL 1301	3
HIST 1013	History of the United States, 1492-1865	HIST 1301	3
GOV 2013	U.S. National Government	GOVT 2305	3
UNIV 1231	Learning Frameworks: The First Year Experience	EDUC 1100, EDUC 1200, EDUC 1300	1
MATH 1703	Elementary Statistics I	MATH 1342	3
SCHs			16

Spring		TCCN	SCHs
MATH 1713	Elementary Statistics II		3
ENG 1023	Composition II	ENGL 1302	3
HIST 1023	History of the United States, 1865 to the Present	HIST 1302	3
GOV 2023	Texas Government	GOVT 2306	3
Life/Physical Science Core			3
SCHs			15

Second Year

Fall		TCCN	SCHs
MATH 2014	Calculus I	MATH 2413	4
MATH 1323	Elementary Analysis III	2312	3
MATH 4303	Algebra in the Mathematics Classroom		3
Life/Physical Science Core			3
Electives			4
SCHs			17

Spring		TCCN	SCHs
MATH 2024	Calculus II	MATH MATH 2414	4
MATH 3013	Discrete Mathematics		3
CSCI 3002	Advanced Computing Technology		2
Language, Philosophy, & Culture Core			3
SCHs			17

READ 3013	Literacy and Learning across the Curriculum	3
SCHs		15

Third Year

Fall		TCCN	SCHs
MATH 3104	Calculus III		4
MATH 4313	Geometry in the Mathematics Classroom		3
MATH 2053 (GP)	Women and Minorities in Engineering, Mathematics, and Science		3
EDSP 4203	Learners with Exceptionalities		3
EDUC 2003	Schools and Society	EDUC 1301	3
SCHs			16

Spring		TCCN	SCHs
MATH 4003	Mathematical Concepts in the Educational Setting		3
MATH 3073	Matrix Methods		3
MATH 4203	Problem Solving in the Mathematics Classroom		3
CSCI 3013	Applied Computational Thinking		3
EDUC 3003	Learning Theory and Development		3
EDUC 3482	Teaching Diverse Learners Through Technology Integration		2
SCHs			17

Fourth Year

Fall		TCCN	SCHs
MATH 4013	Probability and Statistics		3
MATH 3053	Abstract Algebra		3
Creative Arts Core			3
Social/Behavioral Science Core			3
EDUC 4113	Design and Implementation of Instruction and Assessment		3
EDUC 4243	Classroom Environment and Management		3
SCHs			18

Spring	TCCN	
EDUC 4126	Student Teaching: Mathematics	6
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	SCHs	6
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	Total SCHs:	120

(GP) courses satisfy global perspectives graduation requirement.