

UNIVERSITY STUDIES - BS, MATHEMATICS FOR TEACHING CONCENTRATION

The BS in University Studies, Mathematics for Teaching area of concentration consists of courses that are designed to give students desiring a secondary-school teaching credential a solid foundation in mathematics.

Program Requirements

Code	Title	Semester Credit Hours
MATH 300	Foundations of Mathematics ¹	3
MATH 304	Linear Algebra ¹	3
	or MATH 32 or Linear Algebra	
MATH 375	Intermediate Real Analysis ¹	3
MATH 376	Intermediate Abstract Algebra ¹	3
MATH 403	Mathematics and Technology ¹	3
MATH 467	Modern Geometry ¹	3
STAT 211	Principles of Statistics I ¹	3
University and College Requirements		
PHYS 206	Newtonian Mechanics for Engineering and Science	3
POLS 206	American National Government ²	3
POLS 207	State and Local Government ²	3
Select one of the following:		4
MATH 147	Calculus I for Biological Sciences	
MATH 151	Engineering Mathematics I	
MATH 171	Calculus I	
Select one of the following:		4
MATH 148	Calculus II for Biological Sciences	
MATH 152	Engineering Mathematics II	
MATH 172	Calculus II	
American history (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		6
Creative arts (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)		3
Communication (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		6
Language, philosophy and culture (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)		3
Life and physical sciences (https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences)		6

Social and behavioral sciences (<https://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences>) 3

Minor 1	15-18
Minor 2	15-18
General Electives ³	19-25
Total Semester Credit Hours	120

¹ Must make a grade of C or better.

² Completion of four semesters of upper-level ROTC may be substituted for three hours of the requirement.

³ Select from any 100-499 course not used elsewhere, (except ALED 125; ASCC 102; ASTR 109/PHYS 109, ASTR 119/PHYS 119; BMEN 153; KINE 199; LAND 101; MATH 102-148, MATH 151-168 (<https://catalog.tamu.edu/undergraduate/course-descriptions/math/>), MATH 304, MATH 309, MATH 311, MATH 365, MATH 366, MATH 367, MATH 375, MATH 376; PBSI 301, PHYS 109/ASTR 109, PHYS 119/ASTR 119, PHYS 201, PHYS 202, PHYS 205; STAT 201, STAT 301 - 303 (<https://catalog.tamu.edu/undergraduate/course-descriptions/stat/>)).

Maximum of 3 hours of MATH 300 or CSCE 222/ECEN 222 may be used in this degree program.

Maximum of 3 hours of MATH 411 or STAT 414 may be used in this degree program.

Maximum of 4 hours of MATH 417, MATH 437 or CSCE 442 may be used in this degree program.

Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (<https://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) courses and 3 hours of Cultural Discourse (<https://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) courses. A course satisfying a Core category, a college/department requirement, or a general elective can be used to satisfy this requirement. See academic advisor.