

## Bachelor of Science (BS) Mathematics

2025-2026

4-8, Teacher Certification

	Course #	Course Title	Min. Grade		Prerequisite	Additional Notes
3	Choose 1	Communication	С	010	For all 010 courses: Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1301
4	MATH 2413	Calculus I	С	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	Prerequiste for MATH 2412: MATH 1314/1414 with a grade of "C" or better or passing Exemption Test administered by Department of Mathematics
3	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1301 or HIST 2327
1	UTCH 1101	Inquiry Approaches to Teaching	С		Must be a Mathematics or Science Major.	A criminal background check will be required and a tuberculosis test be required before the first field experience. Special permission from UTeach co-director is required to enroll in UTCH 1101 and UTCH 1102 concurrently.
3	Choose 1	Integrative/Experiential Learning Option		090		Recommended: CSCI 1380
3	Choose 1	Creative Arts		050		See General Education Core for course options.
	UNIV	1301 Learning Framework 1101 Academic and Career Success 1001/1300 Living and Working by Design				As required, based on a number of factors such as credit hours earne TSI status, high school rank, major declaration, etc.
17	Semester Total Hours					
3	Choose 1	Communication	С	010	For all 010 courses: Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1302 or ENGL 1305
4	MATH 2414	Calculus II	С		MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
3	MATH 2318	Linear Algebra	С		MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
3	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1302 or HIST 2328
1	UTCH 1102	Inquiry-Based Lesson Design	С		UTCH 1101 with a grade of "C"	Students will begin developing their UTeach Portfolio. May be taken concurrently with UTCH 3301.
3	Choose 1	Social and Behavioral Sciences		080		Recommended: ECON 1301 or ECON 2301
17	Semester Total Hours					
17 #	Course #	Course Title	Min.	GEC	Prerequisite	Additional Notes
Н	Course #		Grade	GEC		Additional Notes
Н 3	Course # MATH 1350	Fundamentals of Mathematics I	Grade C	GEC	MATH 1314 or MATH 1414 with a grade of 'C' or better.	Additional Notes
H 3 4	Course #  MATH 1350  MATH 2415	Fundamentals of Mathematics I Calculus III	Grade			
Н 3	Course # MATH 1350	Fundamentals of Mathematics I	Grade C	070 030/ 090	MATH 1314 or MATH 1414 with a grade of 'C' or better.	Additional Notes  See General Education Core for more details  Recommended: PHYS 2425
H 3 4 3	Course #  MATH 1350  MATH 2415  POLS 2305	Fundamentals of Mathematics I Calculus III U.S. Federal Government & Politics	Grade C	070 030/	MATH 1314 or MATH 1414 with a grade of 'C' or better.	See General Education Core for more details
3 4 3 4 3	Course #  MATH 1350  MATH 2415  POLS 2305  Choose 1	Fundamentals of Mathematics I Calculus III U.S. Federal Government & Politics Life and Physical Sciences	Grade C	070 030/ 090	MATH 1314 or MATH 1414 with a grade of 'C' or better.	See General Education Core for more details Recommended: PHYS 2425
3 4 3 4 3	MATH 1350 MATH 2415 POLS 2305 Choose 1 Choose 1	Fundamentals of Mathematics I Calculus III U.S. Federal Government & Politics Life and Physical Sciences	Grade C	070 030/ 090	MATH 1314 or MATH 1414 with a grade of 'C' or better.	See General Education Core for more details Recommended: PHYS 2425
3 4 3 4 3 17	MATH 1350 MATH 2415 POLS 2305 Choose 1 Choose 1 Semester Total Hours	Fundamentals of Mathematics I Calculus III U.S. Federal Government & Politics Life and Physical Sciences Language, Philosophy & Culture	Grade C	070 030/ 090	MATH 1314 or MATH 1414 with a grade of 'C' or better.  MATH 2414 (or MATH 2488) with a grade of 'C' or better.	See General Education Core for more details Recommended: PHYS 2425
3 4 3 4 3 17 3 3 3	MATH 1350 MATH 2415 POLS 2305 Choose 1 Choose 1 Semester Total Hours MATH 1351	Fundamentals of Mathematics I Calculus III U.S. Federal Government & Politics Life and Physical Sciences Language, Philosophy & Culture Fundamentals of Mathematics II	C C C	070 030/ 090	MATH 1314 or MATH 1414 with a grade of 'C' or better.  MATH 2414 (or MATH 2488) with a grade of 'C' or better.  MATH 350 with a grade of 'C' or better.	See General Education Core for more details Recommended: PHYS 2425
3 4 3 4 3 17 3 3 3	MATH 1350 MATH 2415 POLS 2305 Choose 1 Choose 1 Semester Total Hours MATH 1351 MATH 3350	Fundamentals of Mathematics I Calculus III U.S. Federal Government & Politics Life and Physical Sciences Language, Philosophy & Culture  Fundamentals of Mathematics II Introduction to Mathematical Proof	C C C	070 030/ 090 040	MATH 1314 or MATH 1414 with a grade of 'C' or better.  MATH 2414 (or MATH 2488) with a grade of 'C' or better.  MATH 350 with a grade of 'C' or better.	See General Education Core for more details  Recommended: PHYS 2425  See General Education Core for course options.
H 3 4 3 4 3 17 3 3 3	Course #  MATH 1350  MATH 2415  POLS 2305  Choose 1  Choose 1  Semester Total Hours  MATH 1351  MATH 3350  POLS 2306	Fundamentals of Mathematics I  Calculus III  U.S. Federal Government & Politics  Life and Physical Sciences  Language, Philosophy & Culture  Fundamentals of Mathematics II  Introduction to Mathematical Proof  Texas Government & Politics	C C C	070 030/ 090 040	MATH 1314 or MATH 1414 with a grade of 'C' or better.  MATH 2414 (or MATH 2488) with a grade of 'C' or better.  MATH 3350 with a grade of 'C' or better.  MATH 2318 with a grade of 'C' or better.  UTCH 1101 and UTCH 1102 with a grade of 'C' or better or concurrent enrollment with	See General Education Core for more details  Recommended: PHYS 2425  See General Education Core for course options.
H 3 4 3 4 3 17 3 3 3 3	Course #  MATH 1350  MATH 2415  POLS 2305  Choose 1  Choose 1  Semester Total Hours  MATH 1351  MATH 3350  POLS 2306  UTCH 3301	Fundamentals of Mathematics I Calculus III U.S. Federal Government & Politics Life and Physical Sciences Language, Philosophy & Culture  Fundamentals of Mathematics II Introduction to Mathematical Proof Texas Government & Politics Knowing and Learning in Mathematics and Science	C C C	070 030/ 090 040	MATH 1314 or MATH 1414 with a grade of 'C' or better.  MATH 2414 (or MATH 2488) with a grade of 'C' or better.  MATH 3350 with a grade of 'C' or better.  MATH 2318 with a grade of 'C' or better.  UTCH 1101 and UTCH 1102 with a grade of 'C' or better or concurrent enrollment with	See General Education Core for more details Recommended: PHYS 2425 See General Education Core for course options.  See General Education Core for more details
H 3 4 3 17 3 3 3 1 4	Course #  MATH 1350  MATH 2415  POLS 2305  Choose 1  Choose 1  Semester Total Hours  MATH 1351  MATH 3350  POLS 2306  UTCH 3301  Choose 1	Fundamentals of Mathematics I Calculus III U.S. Federal Government & Politics Life and Physical Sciences Language, Philosophy & Culture  Fundamentals of Mathematics II Introduction to Mathematical Proof Texas Government & Politics Knowing and Learning in Mathematics and Science Integrative/Experiential Learning Option	C C C	070 030/ 090 040 070	MATH 1314 or MATH 1414 with a grade of 'C' or better.  MATH 2414 (or MATH 2488) with a grade of 'C' or better.  MATH 3350 with a grade of 'C' or better.  MATH 2318 with a grade of 'C' or better.  UTCH 1101 and UTCH 1102 with a grade of 'C' or better or concurrent enrollment with	See General Education Core for more details Recommended: PHYS 2425 See General Education Core for course options.  See General Education Core for more details See General Education Core for course options.

The 2024-2026 list of core courses can be found in the 2024-2026 Undergraduate Catalog: www.utrgv.edu/catalog > See 'Bachelors Degree Program Regulations'

	н	Course #	Course Title	Min. GEO Grade	Prerequisite	Additional Notes		
	3	MATH 3363	Modern Algebra I	С	MATH 2318 and MATH 3350, each with a grade of 'C' or better.			
	3	MATH 3352	Modern Geometry I	С	MATH 2318 with a grade of 'C' or better.			
	3	MATE 3301	Fundamentals of Middle School Mathematics	С	MATH 1351 with a grade of 'C' or better.			
FALI	3	MATE 3321	Functions and Modeling	С	MATH 2413 (or MATH 2487) and UTCH 1102, each with a grade of 'C' or better			
AR	3	UTCH 3302	Classroom Interactions	С	(a) An institutional grade point average of at least 2.75, (b) UTCH 1102 with a grade of 'C' or better, (c) UTCH 3301 with a grade of 'C' or better, and (d) admission to the Teacher Education Program.			
IRD YE								
Ŧ	3	MATH 3341	Differential Equations	С	MATH 2414 with a grade of "C" or better.			
	3	MATH 3372	Real Analysis I	С	MATH 2414 and MATH 3350, each with a grade of 'C' or better.			
RING	3	MATE 3302	Fundamentals of Measurement and Geometry I	С	MATH 1351 with a grade of 'C' or better.			
SPI	3	MATE 3304	Fundamentals of Algebraic Structures	С	MATH 1351 with a grade of 'C' or better.			
	3	STAT 3337	Probability and Statistics	С	MATH 2414 with a grade of 'C' or better.			
15 Semester Total Hours								
	н	Course #	Course Title	Min. GEC Grade	Prerequisite	Additional Notes		
	3	MATE 4392	Research Methods in Middle & Secondary School Math	С	One of the courses MATE 3305, STAT 3337, STAT 2334 , or STAT 3301			
	3	MATE 3303	Fundamentals of Measurement and Geometry II	С	MATE 3302 with a grade of 'C' or better.			
=	3	MATE 3317	Perspective in Mathematics and Science	С	Grade of "C" or better in MATE 3321			
FA	3	READ 4305	Disciplinary Literacy in the Classrooms					
AR	3	UTCH 3303	Project-Based Instruction	С	UTCH 3302 with a grade of 'C' or better. Must be officially admitted to the Educator Preparation Program.			
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JRTH YE.	15 Semest	ter Total Hours						
FOURTHYE	15 Semest	ter Total Hours	All students are encoura	ged to meet	state standards for their certification before taking UTCH 4101 & UTCH 4601.			
FOURTHYE	15 Semestr	ter Total Hours  MATH 4390	All students are encoura  Mathematics Project	ged to meet	state standards for their certification before taking UTCH 4101 & UTCH 4601.  Credit for or concurrent enrollment in MATH 2415, STAT 3337, MATH 3341, MATH 3352, MATH 3363, MATH 3372.			

123 TOTAL HOURS

10 Semester Total Hours

UTCH 4101

UTCH 4601

Apprentice Teaching Seminar

Apprentice Teaching

(42) Advanced minimum credit hours

Revised: Tuesday, February 18th, 2025

UTCH 3303 with a grade of 'C' or better.

UTCH 3303 with a grade of 'C' or better.

The final portfolio must provide evidence that the student has met state standards for teacher certification.