



Bachelor of Science (BS)
Interdisciplinary Studies
Middle School Mathematics, 4-8, Teacher Certification

2024-2026

		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
FIRST YEAR	FALL	3	Choose 1	Communication	C	010	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301.	See General Education Core for more details Options: ENGL 1301	
		3	MATH 1350	Fundamentals of Mathematics I	C		Minimum grade of C in one of the following: MATH 1314, MATH 1414, MATH 2412, or MATH 2413.		
		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	C		Must be a Mathematics or Science major.		
		3	Choose 1	Integrative/Experiential Learning Option		090		See General Education Core for more details.	
		4	MATH 2412	Precalculus	C	020	MATH 1314 or MATH 1414 with a grade of 'C' or better; or passing the College Algebra Exemption Test administered by the Department of Mathematics.		
				UNIV			1301 Learning Framework 1101 Academic and Career Success 1001 Living and Working by Design	As required, based on credit hours earned, TSI status, High school rank, major declaration	
17 Semester Total Hours									
FIRST YEAR	SPRING	3	Choose 1	Communication	C	010	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301.	See General Education Core for more details Options: ENGL 1302 or 1305	
		3	MATH 1351	Fundamentals of Mathematics II	C		MATH 1350 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	C		UTCH 1101 with a grade of "C"		
		4	MATH 2413	Calculus I	C		MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.		
		3	Choose 1	Social and Behavioral Sciences		080		See General Education Core for more details.	
	17 Semester Total Hours								
		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
SECOND YEAR	FALL	4	Choose 1	Life and Physical Sciences		030/ 090		See General Education Core for course options.	
		3	MATE 3301	Fundamentals of Middle School Mathematics	C		MATH 1351 with a grade of 'C' or better.		
		3	POLS 2305	U.S. Federal Government & Politics		070		See General Education Core for more details	
		3	Choose 1	Creative Arts		050		See General Education Core for course options.	
		3	Choose 1	Language, Philosophy & Culture		040		See General Education Core for course options.	
	16 Semester Total Hours								
	SPRING	4	Choose 1	Life and Physical Sciences		030/ 090		See General Education Core for course options.	
	3	MATE 3302	Fundamentals of Measurement and Geometry I	C		MATH 1351 with a grade of 'C' or better.			
	3	POLS 2306	Texas Government & Politics		070		See General Education Core for more details		
	3	UTCH 3301	Knowing and Learning in Mathematics and Science	C		UTCH 1101 and UTCH 1102 with a grade of 'C' or better or concurrent enrollment with UTCH 1102.			
	1	Choose 1	Integrative/Experiential Learning Option		090		See General Education Core for course options.		
14 Semester Total Hours									
Student must apply to Teacher Education Program									

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'

Symbols Key

Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.
Bolded Course #: Program Admission Requirement

General Education Core (GEC) Sections: 010 - Communication; 020 - Mathematics; 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative Arts; 060 - American History; 070 - Government/Political Science; 080 - Social and Behavioral Sciences; 090 - Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 - Interdisciplinary; 090 - Technologies; 090 - Language Diversity & Writing.

		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
THIRD YEAR	FALL	3	MATE 3303	Fundamentals of Measurement and Geometry II	C		MATE 3302 with a grade of 'C' or better.	
		3	MATE 3304	Fundamentals of Algebraic Structures	C		MATH 1351 with a grade of 'C' or better.	
		3	MATE 3321	Functions and Modeling	C		MATH 2413 (or MATH 2487) and UTCH 1102, each with a grade of 'C' or better.	
		4	X4XX X4XX	Support Course	C			See Degree Plan for details. Choose 4 hours of Life and Physical Science beyond the core.
		3	UTCH 3302	Classroom Interactions			(a) A University grade point average of at least 2.75, (b) UTCH 3301 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.	
16 Semester Total Hours								
THIRD YEAR	SPRING	3	MATE 3305	Fundamentals of Statistics and Probability	C		MATH 1351 or MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
		3	MATE 3306	Middle School Mathematics in a Technological Environment	C		MATH 1351 with a grade of 'C' or better.	
		3	MATE 3307	Fundamentals of Problem Solving	C		MATH 1351 with a grade of 'C' or better.	
		3	MATE 3317	Perspectives in Mathematics and Science	C		Grade of "C" or better in MATE 3321.	
		3	MATE 3313	Fundamentals of Mathematics History	C		MATH 1351 and MATH 2412, each with a grade of 'C' or better.	
15 Semester Total Hours								
		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FOURTH YEAR	FALL	3	MATE 3311	Fundamentals of Discrete Mathematics	C		MATH 1351 with a grade of 'C' or better.	
		3	MATE 3312	Fundamentals of Number Theory	C		MATH 1351 with a grade of 'C' or better.	
		3	MATE 4392	Research Methods in Middle & Secondary School Math	C		One of the following: MATE 3305, STAT 3337, STAT 2334 , or STAT 3301.	
		3	MATE 3314	Fundamentals of Mathematical Structures and Processes	C		MATH 1351 with a grade of 'C' or better.	
		3	UTCH 3303	Project-Based Instruction	C		UTCH 3302 with a grade of 'C' or better. Must be officially admitted to the Educator Preparation Program.	
15 Semester Total Hours								
FOURTH YEAR	SPRING	3	READ 4305	Disciplinary Literacy in the Classrooms				
		1	UTCH 4101	Apprentice Teaching Seminar			UTCH 3303 with a grade of 'C' or better.	
		6	UTCH 4601	Apprentice Teaching			UTCH 3303 with a grade of 'C' or better.	
10 Semester Total Hours								
120 TOTAL HOURS								
(42) Advanced minimum credit hours								

Revised: Thursday, August 29th, 2024