



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

2025-2026

		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 1001/1300 Living and Working by Design				As required, based on a number of factors such as credit hours earned, TSI status, high school rank, major declaration, etc.		
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								
		SECOND YEAR	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							
	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	READ 4305	Disciplinary Literacy in the Classrooms				
		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.	
	18 Semester Total Hours							
	SPRING	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.		
7 Semester Total Hours								

120 TOTAL HOURS

(42) Advanced minimum credit hours

Revised: Tuesday, February 18th, 2025