

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

The 2026-2027 list of core courses can be found in the 2026-2027 Undergraduate Catalog: [www.utrgv.edu/catalog](http://www.utrgv.edu/catalog) > See 'Bachelors Degree Program Regulations'

Symbols Key										
Campus: B - Offered in Brownsville; E - Offered in Edinburg; O - Offered Online; T - Travel Required										
Bolted Course Number*: Program Admission Requirement										
Min Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.										
Core: 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;										
Core: 090 - Applied Communication and Literacies; Humanities; Leadership; Science Labs; Interdisciplinary; Technologies; Language Diversity & Writing										
Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes	
1	Fall	3	B/E/O	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	
1	Fall	3	B/E	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.		
1	Fall	3	B/E/O	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1301 or HIST 2327	
1	Fall	1	B/E	UTCH 1101	Inquiry Approaches to Teaching	C		Must be in a College of Sciences or BS Integrated Health Sciences majors.		
1	Fall	3	B/E/O	Choose 1	Integrative/Experiential Learning Option		090		See General Education Core for more details.	
1	Fall	4	B/E/O	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.		
1	Spring		B/E/O	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.	
1	Spring	17	<b>Semester Total Hours</b>							
1	Spring	3	B/E/O	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	
1	Spring	3	B/E	MATH 1351	Fundamentals of Mathematics II	C		MATH 1350 with a grade of 'C' or better.		
1	Spring	3	B/E/O	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1302 or HIST 2328	
1	Spring	1	B/E	UTCH 1102	Inquiry-Based Lesson Design	C		UTCH 1101 with a grade of "C" or better or concurrent enrollment with UTCH 3301 and College of Sciences major.		
1	Spring	4	B/E/O	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.		
1	Spring	3	B/E/O	Choose 1	Social and Behavioral Sciences		080		See General Education Core for more details.	
1	Spring	17	<b>Semester Total Hours</b>							
Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes	
2	Fall	4	B/E/O	Choose 1	Life and Physical Sciences		030/ 090		See General Education Core for course options.	
2	Fall	3	B/E	MATE 3301	Fundamentals of Middle School Mathematics	C		MATH 1351 with a grade of 'C' or better.		
2	Fall	3	B/E/O	POLS 2305	U.S. Federal Government & Politics		070		See General Education Core for more details	
2	Fall	3	B/E/O	Choose 1	Creative Arts		050		See General Education Core for course options.	
2	Fall	3	B/E/O	Choose 1	Language, Philosophy & Culture		040		See General Education Core for course options.	
2	Fall	16	<b>Semester Total Hours</b>							
2	Spring	4	B/E/O	Choose 1	Life and Physical Sciences		030/ 090		See General Education Core for course options.	
2	Spring	3	B/E	MATE 3302	Fundamentals of Measurement and Geometry I	C		MATH 1351 with a grade of 'C' or better.		
2	Spring	3	B/E/O	POLS 2306	Texas Government & Politics		070		See General Education Core for more details	
2	Spring	3	O	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.		
2	Spring	1	B/E/O	Choose 1	Integrative/Experiential Learning Option		090		See General Education Core for course options.	
2	Spring	14	<b>Semester Total Hours</b>							

**Student must apply to Teacher Education Program**

Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes
3	Fall	3	E	MATE 3303	Fundamentals of Measurement and Geometry II	C		MATE 3302 with a grade of 'C' or better.	
3	Fall	3	B/E	MATE 3304	Fundamentals of Algebraic Structures	C		MATH 1351 with a grade of 'C' or better.	
3	Fall	3	B/E	MATE 3321	Functions and Modeling	C		MATH 2413 (or MATH 2487) and UTCH 1102, each with a grade of 'C' or better.	
3	Fall	4	B/E/O	X4XX X4XX	Support Course	C			See Degree Plan for details. Choose 4 hours of Life and Physical Science beyond the core.
3	Fall	3	B/E	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.	
3	Fall	<b>16 Semester Total Hours</b>							
3	Fall	3	E	MATE 3305	Fundamentals of Statistics and Probability	C		MATH 1351 or MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
3	Spring	3	E	MATE 3306	Middle School Mathematics in a Technological Environment	C		MATH 1351 with a grade of 'C' or better.	
3	Spring	3	E	MATE 3307	Fundamentals of Problem Solving	C		MATH 1351 with a grade of 'C' or better.	
3	Spring	3	E	MATE 3311	Fundamentals of Discrete Mathematics	C		MATH 1351 with a grade of 'C' or better.	
3	Spring	3	E	MATE 3313	Fundamentals of Mathematics History	C		MATH 1351 and MATH 2412, each with a grade of 'C' or better.	
3	Spring	<b>15 Semester Total Hours</b>							

Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes
4	Fall	3	E	MATE 3317	Perspectives in Mathematics and Science	C		Grade of "C" or better in MATE 3321.	
4	Fall	3	E	MATE 3312	Fundamentals of Number Theory	C		MATH 1351 with a grade of 'C' or better.	
4	Fall	3	E	MATE 4392	Research Methods in Middle & Secondary School Math	C		One of the following: MATE 3305, STAT 3337, STAT 2334, or STAT 3301.	
4	Fall	3	E	MATE 3314	Fundamentals of Mathematical Structures and Processes	C		MATH 1351 with a grade of 'C' or better.	
4	Fall	3	B/E/O	READ 4305	Disciplinary Literacy in the Classrooms				
4	Fall	3	B/E	UTCH 3303	Project-Based Instruction	C		UTCH 3302 with a grade of 'C' or better. Must be officially admitted to the Educator Preparation Program.	
4	Fall	<b>18 Semester Total Hours</b>							
4	Spring	3	B/E	UTCH 4301	Apprentice Teaching Seminar	C		UTCH 3303 with a grade of 'C' or better and admission to clinical teaching.	UTeach requirement
4	Spring	6	B/E	UTCH 4601	Apprentice Teaching			UTCH 3303 with a grade of 'C' or better.	
4	Spring	<b>9 Semester Total Hours</b>							

**122 TOTAL HOURS**  
**(42) Advanced minimum credit hours**