



Bachelor of Interdisciplinary Studies (BIS)
Interdisciplinary Studies
Science, 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
		4	BIOL 1406	General Biology I	C			Satisfies Major-Specific Requirement. (One hour lab - Integrative & Experiential Learning in the General Education Core)
		3	MATH 1314, 1414, 2412 or 2413	College Algebra, Precalculus or Calculus I	C	020	MATH 1314 or MATH 1414: College Ready TSI status in Mathematics. MATH 2412: 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. MATH 2413: MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the 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	C		Must be a Mathematics or Science major.	
			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.
14 Semester Total Hours								
SPRING		3	Choose 1	Communication	C	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
		3	Choose 1	Language, Philosophy, and Culture		040		See General Education Core for course options.
		4	BIOL 1407	General Biology II	C		BIOL 1406 or BIOL 1487.	Satisfies Major-Specific Requirement.
		4	PHYS 1401 or PSCI 1421	General Physics I or Physical Science I		030/ 090	PHYS 1401: MATH 1414, MATH 1314, MATH 2412, or MATH 2413	Satisfies Major-Specific Requirement.
		1	UTCH 1102	Inquiry-Based Lesson Design	C		UTCH 1101 with a grade of "C"	
15 Semester Total Hours								
		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
SECOND YEAR	FALL	4	PHYS 1402 or PSCI 1422	General Physics II or Physical Science II		030/ 090	PHYS 1402: PHYS 1401. PSCI 1421: PSCI 1421	Satisfies Major-Specific Requirement.
		3	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1302 or HIST 2328
		3	POLS 2305	U.S. Federal Government and Politics		070		See General Education Core for more details.
		3	CHEM 1311	General Chemistry I	C		MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 2412, MATH 2413 with a grade of "C" or higher.	Satisfies Major-Specific Requirement.
		1	CHEM 1111	General Chemistry I Lab	C	090	Credit/registration in CHEM 1311.	One hour Integrative & Experiential Learning.
		1	Choose 1	Integrative/Experiential Learning Option		090		See General Education Core for course options.
15 Semester Total Hours								
SPRING		4	ENVR 1401	Introduction to Environmental Science I				Satisfies Major-Specific Requirement.
		3	POLS 2306	Texas Government and Politics		070		See General Education Core for more details.
		3	Choose 1	Creative Arts		050		See General Education Core for course options.
		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	Satisfies Major-Specific Requirement.
		3	Choose 1	Integrative/Experiential Learning Option		090		See General Education Core for course options.
16 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	BIOL 3301	Ecology and Evolution			Grade of 'C' or better in the following: BIOL 1406 and BIOL 1407.	Satisfies Major-Specific Requirement.
		4	GEOL 1403	Physical Geology	C			Satisfies Major-Specific Requirement.
		3	MATH 1342 or MATH 1343	Elementary Statistical Methods or Introduction to Biostatistics			Prerequisites: College Ready TSI status in Mathematics.	Satisfies Major-Specific Requirement.
		4	ASTR 1401	Introduction to Astronomy I				Satisfies Major-Specific Requirement. (One hour lab - Integrative & Experiential Learning in the General Education Core)
		3	Choose 1	Social and Behavioral Sciences		080		See General Education Core for course options.
	17 Semester Total Hours							
	SPRING	4	GEOL 3401	Geomorphology			GEOL 1403 with a grade of 'C' or better.	Satisfies Major-Specific Requirement.
		3	GEOG 2313	Principles of Geography Physics Elementary				Satisfies Major-Specific Requirement.
		3	UTCH 3302	Classroom Interactions	C		(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.	Satisfies Major-Specific Requirement.
		4	Choose 1	Prescribed Electives				See Degree Plan for course options.
		3	READ 4305	Disciplinary Literacy in the Classroom				Satisfies Major-Specific Requirement.
	17 Semester Total Hours							
	SUMMER	3	BIOL 4392	Research Methods in the Science and Mathematics Classroom (UTeach)			For BIOL 4392: Grade of 'C' or better in the following: BIOL 1406, BIOL 1407; or CHEM 1111, 1112, 1311, 1312; or MATH 1314 or 1414; or PHYS 1401, 1402 for PHYS 2425, 2426 or PHYS 2411, 2412; and UTCH 1101, 1102 or consent of instructor. For MATE 4392: one of the following: MATE 3305, STAT 3337, STAT 2334, or STAT 3301.	Satisfies Major-Specific Requirement.
		3	BIOL 4315	Inquiry-Based Science and Laboratory Techniques			Grade of 'C' or better in BIOL 1406, BIOL 1407, and UTCH 3301 or consent of instructor.	Satisfies Major-Specific Requirement.
	6 Semester Total Hours							
		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FOURTH YEAR	FALL	3	PHIL 3317	Perspectives on Science and Mathematics			Credit of "C" or better or registration in UTCH 3302.	Satisfies Major-Specific Requirement.
		3	Choose 1	Prescribed Electives				See Degree Plan for course options.
		4	GEOL 3405	Oceanography			Minimum grade of C in one of the following: GEOL 1403, GEOL 1404, MARS 2310 or BIOL 2310.	Satisfies Major-Specific Requirement.
		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.	
	13 Semester Total Hours							
	SPRING	1	UTCH 4101	Apprentice Teaching Seminar	C		UTCH 3303 with a grade of 'C' or better.	
		6	UTCH 4601	Apprentice Teaching	C		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