

	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FIRST YEAR	3	Choose 1	Communication (Core)	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 1301
	4	BIOL 1406	General Biology I	C			Satisfies Major-Specific Requirement.
	3	MATH 1314/1414	College Algebra (Core)	C	020	College Ready TSI status in Mathematics or MATH 0314/0332/0342.	
	3	Choose 1	American History (Core)		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.	A criminal background check will be required and a tuberculosis test may be required before the first field experience.
			UNIV	1301 Learning Framework 1101 Academic and Career Success 1001 Living and Working by Design			
14 Semester Total Hours							
SPRING	3	Choose 1	Communication (Core)	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
	4	MATH 2412	Precalculus	C		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.	Satisfies Major-Specific Requirement.
	4	BIOL 1407	General Biology II	C		BIOL 1406	Satisfies Major-Specific Requirement.
	4	PHYS 1401 or PSCI 1421	General Physics I or Physical Science I		030	For 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" or better	Satisfies Major-Specific Requirement.
16 Semester Total Hours							
SUMMER	3	Choose 1	Language, Philosophy & Culture (Core)		040		See General Education Core for course options.
	3	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.
	3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1302 or HIST 2328
9 Semester Total Hours							
SECOND YEAR	4	PHYS 1402 or PSCI 1422	General Physics II or Physical Science II (Core)		030	For PHYS 1402: PHYS 1401 for PSCI 1421: PSCI 1421	Satisfies Major-Specific Requirement.
	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.	Satisfies Major-Specific Requirement.
	3	POLS 2305	U.S. Federal Government and Politics (Core)		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 (Core)	C	090	Credit/registration in CHEM 1311.	One hour Integrative & Experiential Learning.
	3	Choose 1	Integrative/Experiential Learning Option (Core)		090		See General Education Core for course options.
	18 Semester Total Hours						
SPRING	3	BIOL 3301	Biological Evolution			Grade of 'C' or better in the following: BIOL 1406 and BIOL 1407, or consent of instructor	Satisfies Major-Specific Requirement.
	3	POLS 2306	Texas Government and Politics (Core)		070		See General Education Core for more details.
	3	Choose 1	Creative Arts (Core)		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	
	4	GEOL 1403	Physical Geology				Satisfies Major-Specific Requirement.
16 Semester Total Hours							
Must apply to Teacher Education Program.							

CORE: The 2023-2024 list of core courses can be found in the 2023-2024 Undergraduate Catalog: www.utrgv.edu/smartcatalog > Bachelors Degree Regulations and Graduation Policies > 'Core Curriculum'

Symbols Key

Critical (!): sequence sensitive course.

Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.

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	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	GEOG 2313	Principles of Geography Physics Elementary				Satisfies Major-Specific Requirement.	
		4	ENVR 1401	Introduction to Environmental Science I				Satisfies Major-Specific Requirement.	
		3	33XX-43XX	Prescribed Advanced Elective			Varies based on course	Course options: BIOL 3404, BIOL 3409, BIOL 3413, GEOL 4403, or GEOL 4302	
		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.	
		17 Semester Total Hours							
SPRING		4	GEOL 3401	Geomorphology			GEOL 1403 with a grade of 'C' or better.	Satisfies Major-Specific Requirement.	
		3	BIOL3330	Functions and Modeling			A grade of "C" or better in the following: MATH 2413 and UTCH 1102.	Satisfies Major-Specific Requirement.	
		3	BIOL 4392	Research Methods in 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. For PHYS 4392: Grade of C or better in the following: MATH 2413 and UTCH 1102.	Satisfies Major-Specific Requirement.	
		3	READ 4305	Disciplinary Literacy in the Classrooms				Satisfies Major-Specific Requirement.	
		13 Semester Total Hours							
		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
FOURTH YEAR	FALL	3	PHIL 3317	Perspectives on Science and Mathematics			Minimum grade of C in one of the following: BIOL 3330	Satisfies Major-Specific Requirement.	
		3	MATE 3305	Fundamentals of Statistics and Probability			MATH 1351 or MATH 2413 with a grade of 'C' or better.	Satisfies Major-Specific Requirement.	
		4	34XX-44XX	Prescribed Advanced Elective			Varies based on course	Course options: BIOL 3404, BIOL 3409, BIOL 3413, GEOL 4403, or GEOL 4302	
		3	UTCH 3303	Project-Based Instruction	C		UTCH 3302 with a grade of "C" or better	Satisfies Major-Specific Requirement.	
		13 Semester Total Hours							
SPRING		1	UTCH 4101	Apprentice Teaching Seminar	C		UTCH 3303 with a grade of "C" or better	Satisfies Major-Specific Requirement.	
		6	UTCH 4601	Apprentice Teaching	C		UTCH 3303 with a grade of "C" or better	Satisfies Major-Specific Requirement.	
		7 Semester Total Hours							

Note

This program leads to a profession which requires an occupational license as defined under Texas Occupations Code 58.001 This requires that all applicants seeking to become licensed must undergo a criminal background check prior to licensure. Students in this program should check with the College of Education and P-16 Integration on the requirements for a criminal background check prior to student teaching.

The Bachelor of Science in Interdisciplinary major in the Department of Biology prepares students with the content knowledge to become eligible for certification as a 4-8 Life Science teacher.

Major Admissions Requirements

1. Admission requirements for this program beyond university admission requirements.

Admission to the Teacher Education Program at the Office of Educator Preparation and Accountability is required for completion of teacher certification requirements with the undergraduate degree. All admission requirements are in accordance to [Texas Administrative Code rules §227.10](#) and the HEA Title II accountability requirements. All applicants must meet the current certification requirements in effect at the time of application, regardless of the catalog year of degree plan.

Major Progression Requirements

1. Progression requirements required for this program.

Admission to the College of Education and P16 Integration is required for participation in Apprentice Teaching and Seminar (UTCH 4101, 4601). Students unable to be admitted to UTCH 4601 and UTCH 4101 will be required to substitute 6 hours, as recommended by advisor.

Teacher Education Program progression requirements include GPA, course grades, certification courses, benchmarks/key assessments and testing.

Major Graduation Requirements

1. Specific graduation requirements required for this program beyond university bachelor's degree requirements.

Minimum GPA of 2.75 in the major is required for graduation. BIOL 1406, BIOL 1407, CHEM 1311/1111, CHEM 1312/1112, UTCH 1101, UTCH 1102, UTCH 3301, UTCH 3302, UTCH 3303, UTCH 4101, UTCH 4601 with a grade of 'C' or better grade in all of these courses; and approval of UTeach portfolio are required for graduation.

123 TOTAL HOURS

42 Advanced minimum credit hours

Approved: Wednesday, March 22, 2023

Revised: Wednesday, March 22, 2023