

	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	CHEM 1311	General Chemistry I		030	MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 2412, MATH 2413 with a grade of "C" or higher."	
	1	CHEM 1111	General Chemistry I Lab		090	Credit/registration in CHEM 1311	
	3	POLS 2305	U.S. Federal Government & Politics		070		See General Education Core for more details.
	4	MATH 2413	Calculus I	C	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	
	1	UTCH 1101	Inquiry Approaches to Teaching	C		Must be in a College of Sciences 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.
15 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 ENGL 1305
	3	CHEM 1312	General Chemistry II		030	CHEM 1311.	
	1	CHEM 1112	General Chemistry II Lab		090	Credit/registration in CHEM 1312.	
	4	MATH 2414	Calculus II			MATH 2413 with a grade of 'C' or better.	
	3	POLS 2306	Texas Government & Politics		070		See General Education Core for more details.
	3	Choose 1	Creative Arts		050		See General Education Core for course options.
	1	UTCH 1102	Inquiry-Based Lesson Design	C		UTCH 1101 with a grade of 'C' or better.	
18 Semester Total Hours							
	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
SECOND YEAR FALL	3	CHEM 2323	Organic Chemistry I			CHEM 1312.	
	1	CHEM 2123	Organic Chemistry I Lab			CHEM 1112.	
	3	Choose 1	Language, Philosophy & Culture		040		See General Education Core for course options.
	3	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1301 or HIST 2327
	4	PHYS 1401	General Physics I		090	MATH 1414 or MATH 1314, MATH 2412 or MATH 2413	
	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.	
	17 Semester Total Hours						
SECOND YEAR SPRING	3	CHEM 2325	Organic Chemistry II			CHEM 2323.	
	1	CHEM 2125	Organic Chemistry II Lab			CHEM 2325.	
	3	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1302 or HIST 2328
	3	Choose 1	Integrative/Experiential Learning Option		090		See General Education Core for course options.
	3	Choose 1	Social and Behavioral Sciences		080		See General Education Core for course options.
	2	XXXX-XXXX	Free Elective				
15 Semester Total Hours							

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
FALL	3	CHEM 3303 or CHEM 3387	Biochemistry I or Biochemistry I Honors			CHEM 2323.	
	1	CHEM 3103	Biochemistry I Lab			CHEM 3303.	
	3	CHEM 2301	Analytical Chemistry			CHEM 1312 and CHEM 1112.	
	1	CHEM 2101	Analytical Chemistry Lab			CHEM 2301.	
	4	PHYS 1402	General Physics II			PHYS 1401.	
12 Semester Total Hours							
THIRD YEAR	3	CHEM 3304	Physical Chemistry I			PHYS 1402; MATH 2413 with a grade of "C" or better and pre or co-requisites in <u>MATH 2414</u> .	
	1	CHEM 3104	Physical Chemistry I Lab			CHEM 3304.	
	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.	
	3	CHEM 3301	Inorganic Chemistry			12 hours of chemistry, including CHEM 2323.	
	1	CHEM 3101	Inorganic Chemistry Lab			CHEM 3301.	
	3	CHEM 4304	Instrumental Analysis			CHEM 2301 and CHEM 2101.	
	1	CHEM 4104	Instrumental Analysis Lab			CHEM 4304.	
	15 Semester Total Hours						
SUMMER	3	BIOL 4392	Research Methods in the Science and Mathematics Classroom (UTeach)			Grade C or better in the following: MATH 2413 and UTCH 1102.	
	3	READ 4305	Disciplinary Literacy in the Classroom				
6 Semester Total Hours							
	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FOURTH YEAR	3	CHEM 3305	Physical Chemistry II			CHEM 3304	
	1	CHEM 3105	Physical Chemistry II Lab			CHEM 3304.	
	3	CHEM 4305	Chemistry Capstone			Chemistry Major with senior standing or consent of instructor.	
	2	CHEM 4201	Chemistry Problems I			Chemistry major with junior standing or consent of instructor.	
	3	PHIL 3317	Perspectives on Science and Mathematics			Credit of "C" or better or registration in UTCH 3302.	
	3	UTCH 3303	Project-Based Instruction			UTCH 3302 with a grade of 'C' or better. Must be officially admitted to the Educator Preparation Program.	
	15 Semester Total Hours						
SPRING	6	UTCH 4601	Apprentice Teaching			UTCH 3303 with a grade of 'C' or better.	
	1	UTCH 4101	Apprentice Teaching Seminar			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