

Chemistry

		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
FIRST YEAR	FALL	3	Choose 1	Communication (Core)		010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1301 or ENGL 1387 (H)	
		3	CHEM 1311	General Chemistry I		030	MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."		
		1	CHEM 1111	General Chemistry I Lab		090	Credit/registration in CHEM 1311		
		4	MATH 2413	Calculus I		020	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 (Core)		080		See General Education Core for course options.	
				UNIV 1301	Learning Framework			Only if required, based on ACT/SAT and high school rank.	
		14 Semester Total Hours							
FIRST YEAR	SPRING	3	Choose 1	Communication (Core)		010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1302 or ENGL 1388 (H) 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 (or MATH 2487) with a grade of 'C' or better.		
		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 (H) or HIST/MASC 2327	
		1	Choose 1	Integrative/Experiential Learning Option (Core)		090		See General Education Core for course options.	
		15 Semester Total Hours							
SECOND YEAR	FALL	3	CHEM 2323	Organic Chemistry I			Prerequisite: CHEM 1312		
		1	CHEM 2123	Organic Chemistry I Lab			Prerequisite: CHEM 1112		
		4	PHYS 1401	General Physics I		090	MATH 1414, MATH 1314, MATH 2412, or MATH 2413	One hour Integrative & Experiential Learning	
		3	Choose 1	Language, Philosophy & Culture (Core)		040		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 1388 (H) or HIST/MASC 2328	
			14 Semester Total Hours						
SECOND YEAR	SPRING	3	CHEM 2325	Organic Chemistry II			Prerequisite: CHEM 2323		
		1	CHEM 2125	Organic Chemistry II Lab			Prerequisite: CHEM 2325		
		4	PHYS 1402	General Physics II			PHYS 1401.		
		3	Choose 1	Integrative/Experiential Learning Option (Core)		090		See General Education Core for course options.	
		3	Choose 1	Creative Arts (Core)		050		See General Education Core for course options.	
			14 Semester Total Hours						

CORE: The 2019-2020 list of core courses can be found at: www.utrgv.edu > Academics > Undergraduate > General Education Core
www.utrgv.edu/core

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	3	CHEM 3303	Biochemistry I			CHEM 2323.	
		1	CHEM 3103	Biochemistry I Lab			Prerequisite: Credit/registration in CHEM 3303.	
		3	CHEM 2301	Analytical Chemistry			Prerequisite: CHEM 1312 and CHEM 1112	
		1	CHEM 2101	Analytical Chemistry Lab			Prerequisite: CHEM 2301.	
		3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)
		4	34XX-44XX	Advanced Elective				CHEM, BIOL, PHYS, MATH, ENGR
		15 Semester Total Hours						
THIRD YEAR	SPRING	3	CHEM 3301	Inorganic Chemistry			12 hours of chemistry, including CHEM 2323.	
		1	CHEM 3101	Inorganic Chemistry Lab			Credit/registration in CHEM 3301.	
		3	CHEM 4304	Instrumental Analysis			CHEM 2301 and CHEM 2101.	
		1	CHEM 4104	Instrumental Analysis Lab			CHEM 4304.	
		3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2306 or POLS 2386 (H)
		4	34XX-44XX	Advanced Elective				CHEM, BIOL, PHYS, MATH, ENGR
		15 Semester Total Hours						
		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FOURTH YEAR	FALL	3	CHEM 3304	Physical Chemistry I			PHYS 1402; MATH 2413 (or MATH 2487) with a grade of 'C' or better and registration in MATH 2414 (or MATH 2488).	
		1	CHEM 3104	Physical Chemistry I Lab			Credit/registration in CHEM 3304.	
		3	MATH 3341	Differential Equations			MATH 2414 (or MATH 2488) and MATH 2318 with a grade of 'C' or better.	
		3	CHEM 33XX-43XX	Major Advanced Elective				CHEM
		2	CHEM 4201	Chemistry Problems I			Chemistry major with junior standing or consent of instructor.	
		3	33XX-43XX	Advanced Elective				CHEM, BIOL, PHYS, MATH, ENGR
			15 Semester Total Hours					
FOURTH YEAR	SPRING	3	CHEM 3305	Physical Chemistry II			CHEM 3304	
		1	CHEM 3105	Physical Chemistry II Lab			Credit/registration in CHEM 3305.	
		3	CHEM 4305	Chemistry Capstone			Prerequisite: Chemistry Major with senior standing or consent of instructor	
		3	CHEM 33XX-43XX	Major Advanced Elective				CHEM
		3	33XX-43XX	Advanced Elective				CHEM, BIOL, PHYS, MATH, ENGR
		2	12XX-42XX	Free Elective				
		3	13XX-43XX	Free Elective				
		18 Semester Total Hours						

120 TOTAL HOURS

(48) TOTAL ADVANCED HOURS

Approved: Thursday, June 13, 2019

Revised: Monday, May 6, 2019