

Chemistry

FIRST YEAR	FALL	1	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
			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, a grade of "C" or better in ENGL 1301.	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	Choose 1	MATH course				Satisfies Major-Specific Requirement MATH 1314, MATH 1414, MATH 1342, MATH 1343
			3	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.
				UNIV	1301 Learning Framework 1101 Academic and Career Success 1001 Living and Working by Design				As required, based on credit hours earned, TSI status, High school rank, major declaration
	13 Semester Total Hours								
	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, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1302 or ENGL 1305
			3	CHEM 1312	General Chemistry II		030	CHEM 1311.	See General Education Core for course options.
		1	CHEM 1112	General Chemistry II Lab		090	Credit/registration in CHEM 1312.		
		4	MATH 2412	PreCalculus			Undergraduate level MATH 1314 Minimum Grade of C or Undergraduate level MATH 1440 Minimum Grade of C or Undergraduate level MATH 1340 Minimum Grade of C or Undergraduate level MATH 1414 Minimum Grade of C	Satisfies Major-Specific Requirement.	
		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST/MASC 2327	
14 Semester Total Hours									
SECOND YEAR	FALL	1	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
			3	CHEM 2323	Organic Chemistry I			Prerequisite: CHEM 1312	Satisfies Major-Specific Requirement.
			1	CHEM 2123	Organic Chemistry I Lab			Prerequisite: CHEM 1112	Satisfies Major-Specific Requirement.
			4	PHYS 1401	General Physics I		090	MATH 1414, MATH 1314, MATH 2412, or MATH 2413	One hour Integrative & Experiential Learning
			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.	Satisfies Major-Specific Requirement.
			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/MASC 2328
	18 Semester Total Hours								
	SPRING		3	CHEM 2325	Organic Chemistry II			Prerequisite: CHEM 2323	Satisfies Major-Specific Requirement.
			1	CHEM 2125	Organic Chemistry II Lab			Prerequisite: CHEM 2325	Satisfies Major-Specific Requirement.
		4	PHYS 1402	General Physics II			PHYS 1401.	Satisfies Major-Specific Requirement.	
		4	MATH 2414	Calculus II			MATH 2413 with a grade of 'C' or better.	Satisfies Major-Specific Requirement.	
		3	Choose 1	Integrative/Experiential Learning Option (Core)		090		See General Education Core for course options.	
15 Semester Total Hours									

CORE: The 2020-2021 list of core courses can be found in the 2020-2021 Undergraduate Catalog: www.utrgv.edu/catalog > See '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	3	CHEM 3303	Biochemistry I			CHEM 2323.	Satisfies Major-Specific Requirement.
		1	CHEM 3103	Biochemistry I Lab			Prerequisite: Credit/registration in CHEM 3303.	Satisfies Major-Specific Requirement.
		3	CHEM 2301	Analytical Chemistry			Prerequisite: CHEM 1312 and CHEM 1112	Satisfies Major-Specific Requirement.
		1	CHEM 2101	Analytical Chemistry Lab			Prerequisite: CHEM 2301.	Satisfies Major-Specific Requirement.
		3	POLS 2305	Government/Political Science (Core)		070		See General Education Core for more details
		4	34XX-44XX	Advanced Science Elective				ASTR, BENG, BIOL, CHEM, EEMS, ENVR, GEOG, GEOL, MARS, MATE, MATH, PHYS, PSCI, SAFS, STAT.
	15 Semester Total Hours							
	SPRING	3	CHEM 3301	Inorganic Chemistry			12 hours of chemistry, including CHEM 2323.	Satisfies Major-Specific Requirement.
		1	CHEM 3101	Inorganic Chemistry Lab			Credit/registration in CHEM 3301.	Satisfies Major-Specific Requirement.
		3	CHEM 4304	Instrumental Analysis			CHEM 2301 and CHEM 2101.	Satisfies Major-Specific Requirement.
		1	CHEM 4104	Instrumental Analysis Lab			CHEM 4304.	Satisfies Major-Specific Requirement.
		3	POLS 2306	Government/Political Science (Core)		070		See General Education Core for more details
		4	34XX-44XX	Advanced Science Elective				ASTR, BENG, BIOL, CHEM, EEMS, ENVR, GEOG, GEOL, MARS, MATE, MATH, PHYS, PSCI, SAFS, STAT.
	15 Semester Total Hours							
FOURTH YEAR	FALL	3	CHEM 3304	Physical Chemistry I			PHYS 1402; MATH 2413 with a grade of 'C' or better and registration in MATH	Satisfies Major-Specific Requirement.
		1	CHEM 3104	Physical Chemistry I Lab			Credit/registration in CHEM 3304.	Satisfies Major-Specific Requirement.
		3	CHEM 43XX-43XX	Advanced Chemistry Elective				Satisfies Major-Specific Requirement. See Degree for CHEM course options.
		2	CHEM 4201	Chemistry Problems I			Chemistry major with junior standing or consent of instructor.	Satisfies Major-Specific Requirement.
		3	Choose 1	Creative Arts (Core)		050		See General Education Core for course options.
		3	33XX-43XX	Advanced Science Elective				ASTR, BENG, BIOL, CHEM, EEMS, ENVR, GEOG, GEOL, MARS, MATE, MATH, PHYS, PSCI, SAFS, STAT.
	15 Semester Total Hours							
	SPRING	3	CHEM 3305	Physical Chemistry II			CHEM 3304	Satisfies Major-Specific Requirement.
		1	CHEM 3105	Physical Chemistry II Lab			Credit/registration in CHEM 3305.	Satisfies Major-Specific Requirement.
		3	CHEM 4305	Chemistry Capstone			Prerequisite: Chemistry Major with senior standing or consent of instructor	Satisfies Major-Specific Requirement.
		3	CHEM 43XX-43XX	Advanced Chemistry Elective				Satisfies Major-Specific Requirement. See Degree for CHEM course options.
		3	33XX-43XX	Advanced Science Elective				ASTR, BENG, BIOL, CHEM, EEMS, ENVR, GEOG, GEOL, MARS, MATE, MATH, PHYS, PSCI, SAFS, STAT.
		2	12XX-42XX	Free Elective				
	15 Semester Total Hours							

120 TOTAL HOURS

(42) Advanced institutional minimum credit hours

Approved: Wednesday, February 3, 2021

Revised: Wednesday, October 14, 2020