



Bachelor of Science (BS) Chemistry

- 1		Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
Π	3	Choose 1	Communication (Core)	Grade	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
	3	CHEM 1311	General Chemistry I (Core)		030	MATH 1314, MATH 1414, MATH 1342, MATH 1343, , MATH 2412, MATH 2413 with a grade of "C" or higher."	See General Education Core for more details Offered:Fall, Spring and Both summers
	1	CHEM 1111	General Chemistry I Lab (Core)		090	Credit/registration in CHEM 1311	See General Education Core for more details Offered:Fall, Spring and Both summers
FAL	3	Choose 1	MATH course				Satisfies Major-Specific Requirement MATH 1314, MATH 1414, MATH 1342, MATH 1343
	4 F	PHYS 1401	General Physics I (Core)		090	MATH 1414, MATH 1314, MATH 2412, or MATH 2413	One hour Integrative & Experiential Learning
ASI TEAK		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
	14 S	Semester Total Hour	rs .				
	3	Choose 1	Communication (Core)		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	CHEM 1312	General Chemistry II (Core)		030	CHEM 1311.	See General Education Core for course options. Offered:Fall, Spring and Both Summers
PRING	1	CHEM 1112	General Chemistry II Lab (Core)		090	Credit/registration in CHEM 1312.	See General Education Core for course options. Offered:Fall, Spring and Both Summers
S	4	PHYS 1402	General Physics II			PHYS 1401.	Satisfies Major-Specific Requirement.
	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.
	15 S	Semester Total Hour	rs				
- 1		Course #	Course Title	Min.	GEC	Prerequisite	Additional Notes
	3	CHEM 2323	Organic Chemistry I	Grade		Prerequisite: CHEM 1312	Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I
	3	CHEM 2323 CHEM 2123	Organic Chemistry I Organic Chemistry I Lab	Grade		Prerequisite: CHEM 1312 Prerequisite: CHEM 1112	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I
				Grade		·	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall
FALL	1	CHEM 2123	Organic Chemistry I Lab	Grade		Prerequisite: CHEM 1112 Prerequisite: CHEM 1312 and CHEM 1112 Prerequisite: CHEM 2301.	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement.
FALL	1 3	CHEM 2123 CHEM 2301	Organic Chemistry I Lab Analytical Chemistry	C	020	Prerequisite: CHEM 1112 Prerequisite: CHEM 1312 and CHEM 1112 Prerequisite: CHEM 2301.	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement.
FALL	1 3 1	CHEM 2123 CHEM 2301 CHEM 2101	Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab	C	020	Prerequisite: CHEM 1112 Prerequisite: CHEM 1312 and CHEM 1112 Prerequisite: CHEM 2301. MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall
FALL	1 3 1 4 3	CHEM 2123 CHEM 2301 CHEM 2101 MATH 2413	Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I (Core) American History (Core)	C		Prerequisite: CHEM 1112 Prerequisite: CHEM 1312 and CHEM 1112 Prerequisite: CHEM 2301. MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. See General Education Core for more details.
FALL	1 3 1 4 3	CHEM 2123 CHEM 2301 CHEM 2101 MATH 2413 Choose 1	Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I (Core) American History (Core)	C		Prerequisite: CHEM 1112 Prerequisite: CHEM 1312 and CHEM 1112 Prerequisite: CHEM 2301. MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. See General Education Core for more details.
SECOND LEAN. FALL	1 3 1 4 3 15 s	CHEM 2123 CHEM 2301 CHEM 2101 MATH 2413 Choose 1 Semester Total Hour	Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I (Core) American History (Core)	C		Prerequisite: CHEM 1112 Prerequisite: CHEM 1312 and CHEM 1112 Prerequisite: CHEM 2301. MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. See General Education Core for more details. Options: HIST 1301 or HIST 2327 Satisfies Major-Specific Requirement.
ING FALL FALL	1 3 1 4 3 15 s	CHEM 2123 CHEM 2301 CHEM 2101 MATH 2413 Choose 1 Semester Total Hour CHEM 2325	Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I (Core) American History (Core)	C		Prerequisite: CHEM 1112 Prerequisite: CHEM 1312 and CHEM 1112 Prerequisite: CHEM 2301. MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics Prerequisite: CHEM 2323	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. See General Education Core for more details. Options: HIST 1301 or HIST 2327 Satisfies Major-Specific Requirement. Offered Fall and Spring Satisfies Major-Specific Requirement.
SPRING FALL FALL	1 3 1 4 3 15 s 3 1	CHEM 2123 CHEM 2301 CHEM 2101 MATH 2413 Choose 1 Semester Total Hour CHEM 2325 CHEM 2125	Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I (Core) American History (Core) Organic Chemistry II Organic Chemistry II Lab	C		Prerequisite: CHEM 1112 Prerequisite: CHEM 1312 and CHEM 1112 Prerequisite: CHEM 2301. MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics Prerequisite: CHEM 2323 Prerequisite: CHEM 2325	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. See General Education Core for more details. Options: HIST 1301 or HIST 2327 Satisfies Major-Specific Requirement. Offered Fall and Spring Satisfies Major-Specific Requirement. Offered: Fall and Spring Satisfies Major-Specific Requirement. Offered: Spring Brownsville Campus; Fall and Spring Edinburg
SPRING FALL FALL	1 3 1 4 3 15 S 3 1 1 3	CHEM 2123 CHEM 2301 CHEM 2101 MATH 2413 Choose 1 Semester Total Hour CHEM 2325 CHEM 2125 CHEM 3301	Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I (Core) American History (Core) TS Organic Chemistry II Organic Chemistry II Lab Inorganic Chemistry	C		Prerequisite: CHEM 1312 and CHEM 1112 Prerequisite: CHEM 2301. MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics Prerequisite: CHEM 2323 Prerequisite: CHEM 2325 12 hours of chemistry, including CHEM 2323.	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. See General Education Core for more details. Options: HIST 1301 or HIST 2327 Satisfies Major-Specific Requirement. Offered Fall and Spring Satisfies Major-Specific Requirement. Offered: Fall and Spring Satisfies Major-Specific Requirement. Offered: Spring Brownsville Campus; Fall and Spring Edinburg Campus Satisfies Major-Specific Requirement. Offered: Spring Brownsville Campus; Fall and Spring Edinburg Campus
SPRING FALL FALL	1 3 1 4 3 15 S 3 1 3 1	CHEM 2123 CHEM 2301 CHEM 2101 MATH 2413 Choose 1 Semester Total Hour CHEM 2325 CHEM 2125 CHEM 3301 CHEM 3101	Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I (Core) American History (Core) Solution of the control	C		Prerequisite: CHEM 1312 and CHEM 1112 Prerequisite: CHEM 2301. MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics Prerequisite: CHEM 2323 Prerequisite: CHEM 2325 12 hours of chemistry, including CHEM 2323. Credit/registration in CHEM 3301.	Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer I Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. See General Education Core for more details. Options: HIST 1301 or HIST 2327 Satisfies Major-Specific Requirement. Offered Fall and Spring Satisfies Major-Specific Requirement. Offered: Fall and Spring Satisfies Major-Specific Requirement. Offered: Spring Brownsville Campus; Fall and Spring Edinburg Campus Satisfies Major-Specific Requirement. Offered: Spring Brownsville Campus; Fall and Spring Edinburg Campus

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'

	• н	Course #	Course Title Min. Grade	GEC	Prerequisite	Additional Notes
	3	CHEM 3303 or CHEM 3387	Biochemistry I or Biochemistry I Honors			Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer
	1	CHEM 3103	Biochemistry I Lab		Prerequisite: Credit/registration in CHEM 3303.	Satisfies Major-Specific Requirement. Offered: Fall, Spring and Summer
	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. Offered: Fall Brownsville Campus; Spring and Fall Edinburg Campus.
	1	CHEM 3104	Physical Chemistry I Lab		Credit/registration in CHEM 3304.	Satisfies Major-Specific Requirement Offered: Fall Brownsville Campus; Spring and Fall Edinburg Campus.
	3	POLS 2305	U.S. Federal Government & Politics (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.
EAR	15	Semester Total Hours				
THIRD Y	3	CHEM 3305	Physical Chemistry II		CHEM 3304	Satisfies Major-Specific Requirement. Offered: Spring Brownsville Campus; Spring and Fall Edinburg Campus
	1	CHEM 3105	Physical Chemistry II Lab		Credit/registration in CHEM 3305.	Satisfies Major-Specific Requirement. Offered: Spring Brownsville Campus; Spring and Fall Edinburg Campus
	3	Choose 1	Integrative/Experiential Learning Option (Core)	090		See General Education Core for course options.
SPRING	3	POLS 2306	Texas Government & Politics	070		See General Education Core for more details
	2	CHEM 4201	Chemistry Problems I		Chemistry major with junior standing or consent of instructor.	Satisfies Major-Specific Requirement. Offered: Spring and Fall
	3	CHEM 4304	Instrumental Analysis		CHEM 2301 and CHEM 2101.	Satisfies Major-Specific Requirement. Offered: Spring
	1	CHEM 4104	Instrumental Analysis Lab		CHEM 4304.	Satisfies Major-Specific Requirement. Offered: Spring
	16	Semester Total Hours	\$ Africa			
	. н	Course #	Course Title Min. Grade	GEC	Prerequisite	Additional Notes
	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 2328
FALL	3	33XX-43XX	Advanced Science Elective			ASTR, BENG, BIOL, CHEM, EEMS, ENVR, GEOG, GEOL, MARS, MATE, MATH, PHYS, PSCI, SAFS, STAT.
œ	3	CHEM 43XX-43XX	Advanced Chemistry Elective			Satisfies Major-Specific Requirement. See Degree for CHEM course options.
н ҮЕА	3	CHEM 43XX-43XX	Advanced Chemistry Elective			Satisfies Major-Specific Requirement. See Degree for CHEM course options.
URT	15	Semester Total Hours				
G.	4	34XX-44XX	Advanced Science Elective			ASTR, BENG, BIOL, CHEM, EEMS, ENVR, GEOG, GEOL, MARS, MATE, MATH, PHYS, PSCI, SAFS, STAT.
	3	Choose 1	Social and Behavioral Sciences (Core)	080		See General Education Core for course options. Recommended PSYC 2301.
	3	CHEM 4305	Chemistry Capstone		Prerequisite: Chemistry Major with senior standing or consent of instructor	Satisfies Major-Specific Requirement. Offered: Spring and Fall
	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.
	16	Semester Total Hours				

120 TOTAL HOURS

Approved: Monday, March 27, 2023 Revised: Monday, March 27, 2023 (42) Advanced minimum credit hours