

Bachelor of Science (BS) Chemistry

2025-2026

	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes						
3	Choose 1	Communication	С		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."	See General Education Core for more details.						
1	CHEM 1111	General Chemistry I Lab		090	Credit/registration in CHEM 1311	See General Education Core for more details.						
3	Choose 1	Support Courses Choose at least one:				Satisfies Major-Specific Requirement MATH 1314, MATH 1414, MATH 1342, MATH 1343						
4	PHYS 1401	General Physics I		090	MATH 1414, MATH 1314, MATH 2412, or MATH 2413.	One hour Integrative & Experiential Learning						
	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.						
14	14 Semester Total Hours											
3	Choose 1	Communication	С	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.	See General Education Core for more details.						
1	CHEM 1112	General Chemistry II Lab		090	Credit/registration in CHEM 1312.	See General Education Core for more details.						
4	PHYS 1402	General Physics II			PHYS 1401.	Satisfies Major-Specific Requirement.						
4	MATH 2412	PreCalculus			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.						
	MATH 2412 Semester Total Hours	PreCalculus				Satisfies Major-Specific Requirement.						
		PreCalculus Course Title	Min. Grade	GEC		Satisfies Major-Specific Requirement. Additional Notes						
15	Semester Total Hours		Min. Grade	GEC	Exemption Test administered by the Department of Mathematics.							
15 :	Semester Total Hours Course #	Course Title	Min. Grade	GEC	Exemption Test administered by the Department of Mathematics. Prerequisite	Additional Notes						
15 : H	Semester Total Hours Course # CHEM 2323	Course Title Organic Chemistry I	Min. Grade	GEC	Exemption Test administered by the Department of Mathematics. Prerequisite CHEM 1312.	Additional Notes Satisfies Major-Specific Requirement.						
15 H	Course # CHEM 2323 CHEM 2123	Course Title Organic Chemistry I Organic Chemistry I Lab	Min. Grade	GEC	Exemption Test administered by the Department of Mathematics. Prerequisite CHEM 1312. CHEM 1112.	Additional Notes Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement.						
15 H 3 1	Course # CHEM 2323 CHEM 2123 CHEM 2301	Course Title Organic Chemistry I Organic Chemistry I Lab Analytical Chemistry	Min. Grade	GEC	Exemption Test administered by the Department of Mathematics. Prerequisite CHEM 1312. CHEM 1312 and CHEM 1112. CHEM 2301 MATH 2411 with a gradual of ICI or better or passing the Precalcular Exemption Test.	Additional Notes Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. Offered: Fall						
15 H 3 1 3 1	CHEM 2101 CHEM 2101 CHEM 2101	Course Title Organic Chemistry I Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab			Exemption Test administered by the Department of Mathematics. Prerequisite CHEM 1312. CHEM 1312 and CHEM 1112. CHEM 2301 MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	Additional Notes Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall						
15 : H 3 1 3 1 4 3	CHEM 2323 CHEM 2123 CHEM 2301 CHEM 2101 MATH 2413	Organic Chemistry I Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I		020	Exemption Test administered by the Department of Mathematics. Prerequisite CHEM 1312. CHEM 1312 and CHEM 1112. CHEM 2301 MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	Additional Notes Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. See General Education Core for more details.						
15 : H 3 1 3 1 4 3	CHEM 2323 CHEM 2323 CHEM 2123 CHEM 2301 CHEM 2101 MATH 2413 Choose 1	Organic Chemistry I Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I		020	Exemption Test administered by the Department of Mathematics. Prerequisite CHEM 1312. CHEM 1312 and CHEM 1112. CHEM 2301 MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	Additional Notes Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. Offered: Fall Satisfies Major-Specific Requirement. See General Education Core for more details.						
15 : H 3 1 1 3 1 4 4 3 15 :	CHEM 2323 CHEM 2123 CHEM 2301 CHEM 2101 MATH 2413 Choose 1 Semester Total Hours	Organic Chemistry I Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I American History		020	Exemption Test administered by the Department of Mathematics. Prerequisite CHEM 1312. CHEM 1312 and CHEM 1112. CHEM 2301 MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	Additional Notes Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. 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						
15 : H 3	CHEM 2323 CHEM 2323 CHEM 2301 CHEM 2101 MATH 2413 Choose 1 Semester Total Hours CHEM 2325	Course Title Organic Chemistry I Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I American History Organic Chemistry II		020	Exemption Test administered by the Department of Mathematics. Prerequisite CHEM 1312. CHEM 1312 and CHEM 1112. CHEM 2301 MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics. CHEM 2323.	Additional Notes Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. 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.						
15: H 3 1 1 3 1 4 3 15: 3 1 1	CHEM 2123 CHEM 2301 CHEM 2101 CHEM 2101 MATH 2413 Choose 1 Semester Total Hours CHEM 2325 CHEM 2125	Course Title Organic Chemistry I Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I American History Organic Chemistry II Organic Chemistry II Lab		020	Exemption Test administered by the Department of Mathematics. Prerequisite CHEM 1312. CHEM 1312 and CHEM 1112. CHEM 2301 MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics. CHEM 2323. CHEM 2325.	Additional Notes Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. 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. Satisfies Major-Specific Requirement.						
15: H 3 1 3 1 4 3 15: 3 1 1 3 3 1 1 3	CHEM 2325 CHEM 2325 CHEM 2101 MATH 2413 Choose 1 Semester Total Hours CHEM 2325 CHEM 2325 CHEM 2325 CHEM 3301	Course Title Organic Chemistry I Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I American History Organic Chemistry II Organic Chemistry II Lab Inorganic Chemistry		020	Exemption Test administered by the Department of Mathematics. Prerequisite CHEM 1312. CHEM 1312 and CHEM 1112. CHEM 2301 MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics. CHEM 2323. CHEM 2323. CHEM 2325. 12 hours of chemistry, including CHEM 2323.	Additional Notes Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. 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. Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement.						
15: H 3 1 3 1 4 3 15: 3 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CHEM 2323 CHEM 2323 CHEM 2123 CHEM 2301 CHEM 2101 MATH 2413 Choose 1 Semester Total Hours CHEM 2325 CHEM 2325 CHEM 2125 CHEM 3301 CHEM 3101	Organic Chemistry I Organic Chemistry I Lab Analytical Chemistry Analytical Chemistry Lab Calculus I American History Organic Chemistry II Organic Chemistry II Lab Inorganic Chemistry Inorganic Chemistry Lab		020	Exemption Test administered by the Department of Mathematics. Prerequisite CHEM 1312. CHEM 1312 and CHEM 1112. CHEM 2301 MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics. CHEM 2323. CHEM 2323. CHEM 2325. 12 hours of chemistry, including CHEM 2323. CHEM 3301.	Additional Notes Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. 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. Satisfies Major-Specific Requirement. Satisfies Major-Specific Requirement. Offered: Spring Satisfies Major-Specific Requirement. Offered: Spring						

	Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes					
	3	CHEM 3303 or CHEM 3387	Biochemistry I or Biochemistry I Honors			CHEM 2323.	Satisfies Major-Specific Requirement.					
	1	CHEM 3103	Biochemistry I Lab			CHEM 3303.	Satisfies Major-Specific Requirement.					
	3	CHEM 3304	Physical Chemistry I			PHYS 1402; MATH 2413 with a grade of 'C' or better and pre or co-requisites in MATH 2414.	Satisfies Major-Specific Requirement. Offered: Fall					
FALL	1	CHEM 3104	Physical Chemistry I Lab			CHEM 3304.	Satisfies Major-Specific Requirement. Offered: Fall					
	3	POLS 2305	U.S. Federal Government & Politics		070		See General Education Core for more details					
~	4	34XX-44XX	Advanced Science Elective				See Degree Plan for options: ASTR, BENG, BIOL, CHEM, EEMS, ENVR, GEOG, GEOL, MARS, MATE, MATH, PHYS, PSCI, SAFS, STAT.					
15 Semester Total Hours												
THIRD	3	CHEM 3305	Physical Chemistry II			CHEM 3304	Satisfies Major-Specific Requirement. Offered: Spring					
	1	CHEM 3105	Physical Chemistry II Lab			CHEM 3305.	Satisfies Major-Specific Requirement. Offered: Spring					
	3	Choose 1	Integrative/Experiential Learning Option		090		See General Education Core for course options.					
ပ္	3	POLS 2306	Texas Government & Politics		070		See General Education Core for more details.					
SPRI	2	CHEM 4201	Chemistry Problems I			Chemistry major with junior standing or consent of instructor.	Satisfies Major-Specific Requirement.					
	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 Sem	ester Total Hours										
		Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes					
	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 1302 or HIST 2328					
	3	33XX-43XX	Advanced Science Elective				See Degree Plan for options: ASTR, BENG, BIOL, CHEM, EEMS, ENVR, GEOG, GEOL, MARS, MATE, MATH, PHYS, PSCI, SAFS, STAT.					
FAI	3	CHEM 43XX-43XX	Advanced Chemistry Elective				Satisfies Major-Specific Requirement. See Degree for CHEM course options.					
œ	3	CHEM 43XX-43XX	Advanced Chemistry Elective				Satisfies Major-Specific Requirement. See Degree for CHEM course options.					
н үед	15 Sem	15 Semester Total Hours										
FOURT	4	34XX-44XX	Advanced Science Elective				See Degree Plan for options: ASTR, BENG, BIOL, CHEM, EEMS, ENVR, GEOG, GEOL, MARS, MATE, MATH, PHYS, PSCI, SAFS, STAT.					
	3	Choose 1	Social and Behavioral Sciences		080		See General Education Core for course options. Recommended PSYC 2301.					
SING	3	CHEM 4305	Chemistry Capstone			Chemistry Major with senior standing or consent of instructor.	Satisfies Major-Specific Requirement. Offered: Spring and Fall					

16 Semester Total Hours
120 TOTAL HOURS

Choose 1

33XX-43XX

Creative Arts

Advanced Science Elective

(42) Advanced minimum credit hours

Revised: Tuesday, February 18th, 2025

See General Education Core for course options.

See Degree Plan for options: ASTR, BENG, BIOL, CHEM, EEMS, ENVR, GEOG, GEOL, MARS, MATE, MATH, PHYS, PSCI, SAFS, STAT.

050