



Bachelor of Science in Chemistry w/ Industrial Chemistry Concentration (120 hours)

This table shows a sample recommended course sequence for this degree based on the UHD 2025-26 Undergraduate Catalog. Students should verify degree requirements and registration plans with an advisor to ensure accuracy. Please note that some degrees and colleges have specific GPA and other requirements. Courses with asterisks (*) indicate Common Core courses.

First Year (Freshman 0-29 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
ENG 1301*	3		ENGL 1301	Composition I	ENG 1302*	3		ENGL 1302	Composition II
MATH 2401*	4		MATH 2413	Calculus I	CHEM 1308/1108*	4		CHEM 1312/ CHEM	General Chemistry II w/ Lab
CHEM* 1307/1107	4		CHEM 1311/ 1111	General Chemistry I w/ Lab	BIOL 1301/1101 (General Biology w/ Lab)	4		BIOL 1306/BIO L 1106	General Biology w/ Lab
UHD 1303 (Freshman Seminar*)	3				MATH 2402	4		MATH 2414	Calculus II
Total Hours	14				Total Hours	15			

Second Year (Sophomore 30-59 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
CHEM 2301/2101 (Organic Chem I w/ Lab)	4				CHEM 2302/2102 (Org CHEM 2 w/ Lab)	4			
BIOL 1302/1102 (General Biology II w/ Lab)	4		BIOL 1307/BIO L 1107	General Biology w/ Lab	PHYS 1307/1107	4		PHYS 1301/ 1101	Physics w/ Lab
Language, Philosophy, and Culture*	3				STAT 3311 (Stats Natural Science) or CS 1408 or CS 1411	3		COSC 1436	Programming Fundamentals
Creative Arts Course*	3				POLS 2306*	3		GOVT 2306	Texas Government
Total Hours	14				Total Hours	14			

Third Year (Junior 60-89 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
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CHEM 3330/3130 (Physical CHEM I w/ Lab)	4				CHEM 3332/3132 (Physical CHEM II w/ Lab)	4			
CHEM 3310/3110 (Quant Analysis w/ Lab)	4				CHEM 4340/4140 (Biochem w/ Lab)	4			
PHYS 1308/1108	4		PHYS 1302/1102	College Physics II w/ Lab	American History Course*	3			
Technical Writing	3				POLS 2305*	3		GOVT 2305	Federal Government
Total Hours	15				Total Hours	14			

Fourth Year (Senior 90-120 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
CHEM 4362/4162 (Advanced Inorganic Chemistry w/ Lab)	4				CHEM 4410 (Instrumental Methods of Analysis)	4			
CHEM 4360 (Industrial Organic Chem)	3				CHEM 3300 (Undg Research) or 4380 (Field Experience in Chem)	3			
American History Course	3				Oral Communication*	3			
Social & Behavioral Sciences*	3				CHEM 4364/4164 (Polymer Chem w/ Lab)	4			
Free Electives (if needed)	3				Free Electives (if needed)	4			
Total Hours	16				Total Hours	18			