

Bachelor of Science in Chemistry (120 hours)

This is a recommended course sequence based on the UHD 2023-24 Undergraduate Catalog for a degree in Chemistry which equips students to pursue careers in oil and gas industry, and research labs. Courses with asterisks (*) indicate Common Core courses.

First Year					
Semester 1			Semester 2		
Course	Hours	Grade	Course	Hours	Grade
ENG 1301*	3		ENG 1302*	3	
MATH 2401*	4		PHYS 1307/1107	4	
CHEM 1307/1107*	4		CHEM 1308/1108*	4	
UHD First-year Seminar*	3		MATH 2402	4	
			POLS 2305* (Summer Option)	3	
Total Hours	14		Total Hours	18	
Second Year					
Semester 1			Semester 2		
Course	Hours	Grade	Course	Hours	Grade
CHEM 2301/2101 (Org CHEM I w/Lab)	4		CHEM 2302/2102 (Org CHEM 2 w/Lab)	4	
PHYS 1308/1108	4		BIOL 1301/1101 (General Biology/Lab)	4	
Approved Creative Arts Course* (Summer Option)	3		MATH 2403 (Calculus III)	4	
Language, Philosophy, and Culture*	3		POLS 2306* (Summer Option)	3	
Total Hours	14		Total Hours	15	
Third Year					
Semester 1			Semester 2		
Course	Hours	Grade	Course	Hours	Grade
CHEM 3330/3130 (Physical Chem I/Lab)	4		CHEM 3332/3132 (Physical Chem 2 /Lab)	4	
BIOL 1302/1102 (General Biology 2 w/Lab)	4		CHEM 4340/4140 (BIOCHEM w/Lab)	4	
MATH 2403 (Calculus III), STAT 3311 (Stats Natural Science) or CS 1408 or CS 1410	3		Approved American History Course*	3	
CHEM 3300 (Research)	3		Approved Social and Behavioral Sciences Course* (Summer Option)	3	
Total Hours	14		Total Hours	14	
Fourth Year					
Semester 1			Semester 2		
Course	Hours	Grade	Course	Hours	Grade
CHEM 4362/4162 (Advanced Inorganic Chemistry w/ Lab)	4		CHEM 4410 (Instrumental Methods of Analysis)	4	
CHEM 3310/3110 (Quant Analysis/Lab)	4		CHEM 4364/4164 (Polymer Chemistry/lab)	4	
Approved American History course* (Summer Option)	3		CHEM 3320 (Environmental Chem)	3	
Choose one Technical Writing Course: TCOM 3302, 3325, 3326, 3329, or 4306	3		Approved Oral Communication course* (Summer Option)	3	
			Free Elective (if needed)	3	
Total Hours	14		Total Hours	17	

15 to Finish

Fall: 15 hours • Spring: 15 hours

30 in 3

Fall: 12 hours • Spring: 12 hours • Summer: 6 hours