



Bachelor of Science in Biotechnology (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 2411* (Calculus I Natural Science)	4		MATH 2413	Calculus I	BIOL 1302/1102*	4		BIOL 1307/1107	General Biology II w/ Lab
BIOL 1301/1101*	4		BIOL 1306/BIOL 1106	General Biology w/ Lab	CHEM 1307/1107	4		CHEM 1311/1111	General Chemistry I w/ Lab
UHD 1303 (Freshman Seminar*)	3				CS 1411 or CS 1408	4		COSC 1436	Programming Fundamentals
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 1308/1108	4		CHEM 1312/C HEM 1112	General Chemistry II w/ Lab	BIOL 2303/2103 (General Genetics)	4		BIOL 2316/2116	General Genetics w/ Lab
PHYS 1307/1107	4		PHYS 1301/1101	Physics w/ Lab	MBIO 2305/2105	4		BIOL 2321/ BIOL 2121	General Microbiology w/ Lab
Language, Philosophy, and Culture*	3				PHYS 1308/1108	4		PHYS 1302/1102	College Physics II w/ Lab
POLS 2306*	3		GOVT 2306	Texas Government	Creative Arts Course*	3			
Total Hours	14				Total Hours	15			

Third Year (Junior 60-89 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
Focus Area Option	4				Focus Area Option	4			

CHEM 2301/2101 (Organic CHEM I w/ Lab)	4				Focus Area Option	3			
Biol 3306 (Biological Evolution)	3				CHEM 4340/4140 (Biochem I w/ Lab)	4			
American History Course*	3				American History Course*	3			
POLS 2305*	3		GOVT 2305	Federal Government	STAT 3311 (Stats for Natural	3			
Total Hours	17				Total Hours	16			
Fourth Year (Senior 90-120 hrs)									
Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
High Impact Lab Option	3				MBIO 4310 (Microbial Biotechnology)	3			
BIOL 4220 (Intro to Genomics & Bioinformatics)	2				BIOL 4320 (Cell Bio) or BIOL 4330 (Molecular Bio)	3			
Chemistry, Mathematics and Computer Science Content	3				Seminar	3			
Oral Communication Course*	3				Chemistry, Mathematics and Computer Science	3			
Technical Writing Course	3				Social & Behavioral Sciences*	3			
Total Hours	14				Total Hours	15			