



Bachelor of Science in Biology w/Molecular and Cellular Biosciences Concentration (120 hours)

This table shows a sample recommended course sequence for this degree based on the **UHD 2026-27 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 or MATH 2401	4		MATH 2413	Calculus I	BIOL 1302/1102*	4		BIOL 1307/1107	General Biology II w/ Lab
BIOL 1301/1101*	4		BIOL 1306/1106	General Biology w/ Lab	CHEM 1307/1107	4		CHEM 1311/1111	General Chemistry I w/ Lab
UHD 1303 (Freshman Seminar*)	3				MATH 2402 or CS 1411 or CS 1408	4		MATH 2414 or COSC 1436	Calculus II or 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 1312/1112	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 2321/2121	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
BIOL 3306 (Biological Evolution)	3				CHEM 4340/4140 (Biochemistry Lec/Lab)	4			
CHEM 2301/2101 (Organic Chem I w/ Lab)	4				BIOL 4330 (Molecular Biology)	3			

STAT 3311 (Stats-Natural Science)	3					Molecular & Cellular Concentration Hours	3			
American History Course*	3					American History Course*	3			
POLS 2305 (Federal Government)*	3		GOVT 2305	Federal Government		Social & Behavioral Sciences*	3			
Total Hours	16					Total Hours	16			

Fourth Year (Senior 90-120 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM		Semester 2	Hours	Grade	TCCNS	ACGM
BIOL 4320 (Cellular Biology)	3					Molecular & Cellular Concentration Hours	4			
High Impact Lab Option	3					Molecular & Cellular Concentration Hours	3			
Seminar	3					Technical Writing Course	3			
Oral Communication Course*	3					Approved UL Elective	3			
Approved UL Elective	3					Approved UL Elective	2			
Total Hours	15					Total Hours	15			