

### 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 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
<b>ENG 1301*</b>	3		ENGL 1301	Composition I	<b>ENG 1302*</b>	3		ENGL 1302	Composition II
<b>MATH 2411 or MATH 2401</b>	4		MATH 2413	Calculus I	<b>BIOL 1302/1102*</b>	4		BIOL 1307/1107	General Biology II w/ Lab
<b>BIOL 1301/1101*</b>	4		BIOL 1306/1106	General Biology w/ Lab	<b>CHEM 1307/1107</b>	4		CHEM 1311/1111	General Chemistry I w/ Lab
<b>UHD 1303</b> (Freshman Seminar*)	3				<b>MATH 2402 or CS 1411 or CS 1408</b>	4		MATH 2414 or COSC 1436	Calculus II or Programming Fundamentals
<b>Total Hours</b>	<b>14</b>				<b>Total Hours</b>	<b>15</b>			

#### Second Year (Sophomore 30-59 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
<b>CHEM 1308/1108</b>	4		CHEM 1312/1112	General Chemistry II w/ Lab	<b>BIOL 2303/2103</b> (General Genetics)	4		BIOL 2316/2116	General Genetics w/ Lab
<b>PHYS 1307/1107</b>	4		PHYS 1301/1101	Physics w/ Lab	<b>MBIO 2305/2105</b>	4		BIOL 2321/2121	General Microbiology w/ Lab
<b>Language, Philosophy, and Culture*</b>	3				<b>PHYS 1308/1108</b>	4		PHYS 1302/1102	College Physics II w/ Lab
<b>POLS 2306*</b>	3		GOVT 2306	Texas Government	<b>Creative Arts Course*</b>	3			
<b>Total Hours</b>	<b>14</b>				<b>Total Hours</b>	<b>15</b>			

#### Third Year (Junior 60-89 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
<b>BIOL 3306</b> (Biological Evolution)	3				<b>CHEM 4340/4140</b> (Biochemistry Lec/Lab)	4			
<b>CHEM 2301/2101</b> (Organic Chem I w/ Lab)	4				<b>BIOL 4330</b> (Molecular Biology)	3			

<b>STAT 3311</b> (Stats-Natural Science)	3				<b>Molecular &amp; Cellular Concentration Hours</b>	3			
<b>American History Course*</b>	3				<b>American History Course*</b>	3			
<b>POLS 2305</b> (Federal Government)*	3		GOVT 2305	Federal Government	<b>Social &amp; Behavioral Sciences*</b>	3			
<b>Total Hours</b>	<b>16</b>				<b>Total Hours</b>	<b>16</b>			
<b>Fourth Year (Senior 90-120 hrs)</b>									
<b>Semester 1</b>	<b>Hours</b>	<b>Grade</b>	<b>TCCNS</b>	<b>ACGM</b>	<b>Semester 2</b>	<b>Hours</b>	<b>Grade</b>	<b>TCCNS</b>	<b>ACGM</b>
<b>BIOL 4320</b> (Cellular Biology)	3				<b>Molecular &amp; Cellular Concentration Hours</b>	4			
<b>High Impact Lab Option</b>	3				<b>Molecular &amp; Cellular Concentration Hours</b>	3			
<b>Seminar</b>	3				<b>Technical Writing Course</b>	3			
<b>Oral Communication Course*</b>	3				<b>Approved UL Elective</b>	3			
<b>Approved UL Elective</b>	3				<b>Approved UL Elective</b>	2			
<b>Total Hours</b>	<b>15</b>				<b>Total Hours</b>	<b>15</b>			