

## Bachelor of Science in Biotechnology (120 hours)

This is a recommended course sequence based on the UHD 2023-24 Undergraduate Catalog for a degree in biotechnology which equips students to pursue careers in lab research, with applied areas such as health, microbiology, and DNA technology. 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 2411* (can be substituted for MATH 2401)	4		BIOL 1302/1102*	4	
BIOL 1301/1101*	4		CHEM 1307/1107	4	
UHD First-year Seminar*	3		MATH 2412 (can be substituted with CS 1410 or CS 1408)	4	
<b>Total Hours</b>	<b>14</b>		<b>Total Hours</b>	<b>15</b>	
Second Year					
Semester 1			Semester 2		
Course	Hours	Grade	Course	Hours	Grade
CHEM 1308/1108	4		MBIO 2305/2105	4	
PHYS 1307/1107	4		PHYS 1308/1108	4	
POLS 2306* (Summer Option)	3		BIOL 2303/2103 (Genetics w/Lab)	4	
Approved Language, Philosophy, and Culture course*	3		Approved Creative Arts course* (Summer Option)	3	
<b>Total Hours</b>	<b>14</b>		<b>Total Hours</b>	<b>15</b>	
Third Year					
Semester 1			Semester 2		
Course	Hours	Grade	Course	Hours	Grade
BIOL 3330/3130 (Plant Bio w/ Lab) or BIOL 3340/3140	4		Foundational Content Course 1	3	
CHEM 2301/2101 (Organic CHEM I w/Lab)	4		Foundational Content Course 2	3	
Approved Social and Behavioral Sciences course*	3		CHEM 4340/4140 (Biochem I w/ Lab)	4	
Approved American History course*	3		STAT 3311 (Stats for Natural Sci)	3	
POLS 2305 (Federal Government)* (Summer Option)	3		Approved American History course* (Summer Option)	3	
<b>Total Hours</b>	<b>17</b>		<b>Total Hours</b>	<b>16</b>	
Fourth Year					
Semester 1			Semester 2		
Course	Hours	Grade	Course	Hours	Grade
Focus Content Course 1	3		Focus Content Course 2	3	
Chemistry and Math Content Course 1	3		Chemistry and Math Content Course 2	3	
BIOL 4220 (Intro to Genomics & Bioinformatics) or BIOL 4330	2		BIOL 4311 or MBIO 4311	3	
Approved Oral Communication course* (Summer Option)	3		BIOL 4232 (Cell Biology Laboratory) or BIOL 4230	2	
Choose one: Technical Writing Course TCOM 3302, 3325, 3326, 3329, 4306	3		Free Elective Course (If needed) (Summer Option)	4	
<b>Total Hours</b>	<b>14</b>		<b>Total Hours</b>	<b>15</b>	

**15 to Finish**

Fall: 15 hours • Spring: 15 hours

**30 in 3**

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