

Bachelor of Science - Biology with Concentration in Microbiology Major (Four Year Plan)

YEAR 1

Semester 1		Semester 2	
Course Number	Credit Hours	Course Number	Credit Hours
ENG 1301 (Composition I)# P: A grade of C or better in ENG 1300, TSI WRITING Essay score of 5, or an essay score of 4 and WRITING score of 363, or TSI WRITING complete, or TSI WRITING exempt	3	ENG 1302 (Composition II) P: A grade of C or better in ENG 1301 or placement by examination	3
*BIOL 1301/1101 (General Biology I w/ Lab) & P: Credit or enrollment in ENG 1301 (or 010 core complete) and MATH 1301	4	*BIOL 1302/1102 (General Biology II w/ Lab) & P: BIOL 1301 and BIOL 1101	4
*MATH 2411 (Calculus I for Natural Sciences)# & P: C or better in MATH 1404 or MATH 1505 or placement by exam taken at UHD (can be substituted with MATH 2401)	4	*CHEM 1307/1107 (General Chemistry I w/ Lab) P: Credit or enrollment in MATH 1301, ENG 1301 (or 010 core complete), and one year of HS chemistry OR CHEM 1305/1105	4
UHD 1303 (Freshman Seminar – Life and Physical Sciences) Transfer students see advisor for options	3	MATH 2412 (Calculus II for Natural Sciences) P: C or better in MATH 2411 or MATH 2401 (can be substituted with CS 1408 or CS 1410)	4
		POLS 2305 (Federal Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Total Semester Hours	14	Total Semester Hours	18

YEAR 2

Semester 3		Semester 4	
Course Number	Credit Hours	Course Number	Credit Hours
*CHEM 1308/1108 (General Chemistry II w/ Lab) P: Grade of C or better in CHEM 1307/1107	4	*MBIO 2305/2105 (General Microbiology w/ Lab) P: BIOL 1302/1102 and CHEM 1308/1108	4
PHYS 1307/1107 (General Physics I w/ Lab) P: Credit or enrollment in MATH 1302 or the equivalent (can be substituted with PHYS 2401/2101)	4	PHYS 1308/1108 (General Physics II w/ Lab) P: PHYS 1307/1107 (can be substituted with PHYS 2402/2102)	4
POLS 2306 (Texas Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3	*BIOL 3303/3103 (General Genetics w/ Lab) P: BIOL 1302/1102 and CHEM 1308/1108	4
Approved Language, Philosophy, and Culture course (p. 60) P: Refer to catalog	3	Approved Creative Arts course (p. 60) P: Refer to catalog	3
Total Semester Hours	14	Total Semester Hours	15

YEAR 3

Semester 5		Semester 6	
Course Number	Credit Hours	Course Number	Credit Hours
MBIO 3320 (Virology) P: MBIO 2305/2105	3	MBIO 4320/4120 (Immunology w/ Lab) P: C or better in MBIO 2305/2105 and BIOL 3303/3103	4
CHEM 3301/3201 (Organic Chemistry I w/ Lab) P: C or better in CHEM 1308/1108	5	BIOL 3306 (Biological Evolution) P: BIOL 3303 (can be substituted with BIOL/GEOL 4301)	3
STAT 3311 (Statistical Analysis for Natural Science) P: A grade of C or better in MATH 1404 or MATH 1505	3	CHEM 4340/4140 (Biochemistry I w/ Lab) % P: BIOL 1302/1102 and CHEM 3301/3201	4
Approved Am. Hist. course (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3	Approved Am. Hist. course (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
		Approved Social and Behavioral Sciences course (p. 60) P: Refer to catalog	3
Total Semester Hours	14	Total Semester Hours	17

YEAR 4

Semester 7		Semester 8	
Course Number	Credit Hours	Course Number	Credit Hours
MBIO 4340/4140 (Medical Microbiology w/ Lab) P: C or better in MBIO 2305/2105 and BIOL 3303/3103	4	MBIO Concentration Option See catalog for options	4
MBIO Concentration Option See catalog for options	3	MBIO Concentration Option See catalog for options	3
Approved UL Biology Course BIOL 3300, 4230, 4232, 4260, 4399* (*enrollment in Honors Program required)	2-3	BIOL 4210 (Biology Seminar) % P: Senior standing and majoring in an area of life science (can be substituted with MBIO 4210)	2
Technical Writing Course % ENG 3302, 3325, 3326, 3329, or 4306 P: Refer to catalog	3	Approved UL Elective Course	3-4
Approved Oral Communication course (p. 60) P: Refer to catalog	3		
Total Semester Hours	15-16	Total Semester Hours	12-13

Total Credit Hours Required 120

* Critical course required to stay on track within major and take subsequent courses

Students are expected to place into ENG 1301 and MATH 2401 via CLEP or Bypass exams – placement tests determine which english or math course students should start with and additional courses may be necessary

& Satisfies both common core and major requirement/prerequisite

% Satisfies both major requirement/prerequisite and integrated requirement course