

COLLEGE OF TECHNOLOGY

Bachelor of Science, Biotechnology

Four-Year Academic Map 2022-2023

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total
	BIOL 1306/1106	Biology for Science Majors I	4	BIOL 1307/1107	Biology for Science Majors II	4	
	MATH 2312	Precalculus Math	3	CHEM 1311/1111	General Chemistry I & Lab	4	
	*BTEC 1322	Intro to Biotechnology	3	MATH 2413	Calculus I	4	
	ENGL 1301	First Year Writing I	3	ENGL 1302	First Year Writing II	3	
	HIST 1301	U. S. to 1877	3				
	Semester Hours	16	Semester Hours	15		31	

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total
	CHEM 1312/1112	General Chemistry II & Lab	4	CHEM 2323/2123	Fund of Organic Chemistry & Lab	4	
	BIOL 2321/2121	Microbiology for Sci Majors & Lab	4	PHIL 1305	Introduction to Ethics	3	
	ELET 2300	Intro to C++ Programming	3	MATH 1342	Elem Statistical Methods	3	
	GOVT 2306	US & Texas Constitution & Politics	3	CIS 2334	Information Systems Applications	3	
	HIST 1302	U. S. since 1778	3	GOVT 2305	US Government	3	
	Semester Hours	17	Semester Hours	16		33	

YEAR 3	Semester 1 Fall			Semester 2 Spring			Total
	BCHS 3304	General Biochemistry	3	BCHS 3201	General Biochemistry Lab	2	
	*BTEC 3302	Molecular Genetics & Biotechnology	3	*BTEC 3200	Biotechnology Research Methods and Applications	2	
	*BTEC 3317	Biotechnology Regulatory Environment	3	*BTEC 3321	Current Good Manufacturing Prac	3	
	PHYS 1301	College Phys I & Lab	3	*BTEC 3301	Prin of Genomics/Proteomics & Bioinformatics	3	
	*TLIM 3363	Technical Communication	3	*TLIM 3340	Organizational Leadership & Super	3	
	Semester Hours	15	Semester Hours	13		29	

YEAR 4	Semester 1 Fall			Semester 2 Spring			Total
	*BTEC 3320	Intro to QA/QC in BTEC	3	*BTEC 4319	Microbial Biotechnology	3	
	or	OR		or	OR		
	CIS 3343	Info Sys Analysis & Design	3	CIS 3365	Database Management	3	
	Approved Elective	Options: BCHS 4306, 4324, 4325, BIOL 4310, 4323, 4365, 4366, 4367, 4374; BTEC 3399, 4399; TLIM 4342	3	*BTEC 4301/4101	Prin of Bioprocessing & Lab	4 or 3	
	Core Course	Creative Arts	3	or	OR		
	Core Course	Social & Behavioral Sciences	3	*BTEC 4300/4100	Principles of Bioinformatics & Lab		
	Free Elective	Free Elective	3	*BTEC 4350	Biotechnology Capstone	3	
	Semester Hours	15	Free Elective	Free Elective	3		
			Semester Hours	13		28	
						120	

Courses in Bold are important prerequisites and should be taken as early as students are able.

*Courses taught in Sugar Land

Students should meet with their academic advisor to formulate their own plan.