



COLLEGE OF TECHNOLOGY

Bachelor of Science, Biotechnology

Four-Year Academic Map 2020-2021

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	English Composition I	3	ENGL 1302	English Composition II	3	
	HIST 1301	United States History I	3				
	Semester Hours			16	Semester Hours		15

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total
	CHEM 1312/1112	General Chemistry II & Lab	4	CHEM 3331/3221	Fund of Organic Chemistry & Lab	5	
	BIOL 3332/3132	Elementary Microbiology & Lab	4	PHIL 2306	Introduction to Ethics	3	
	ELET 2300	Intro to C++ Programming	3	MATH 1342	Elem Statistical Methods	3	
	GOVT 2305	Federal Government	3	CIS 2334	Information Systems Applications	3	
	HIST 1302	United States History II	3	GOVT 2306	Texas Government	3	
	Semester Hours			17	Semester Hours		17

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 3100	Biotechnology Research Methods and Applications	1	
	*BTEC 3317	Biotechnology Regulatory Environment	3	*BTEC 3321	Current Good Manufacturing Prac	3	
	PHYS 1301/1101	College Phys I & Lab	4	*BTEC 3301	Prin of Genomics/Proteomics & Bioinformatics	3	
	*TLIM 3363	Technical Communication	3	*TLIM 3340	Organizational Leadership & Super	3	
	Semester Hours			16	Semester Hours		12

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		CIS 3365	Database Management		
	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	Principles of Bioinformatics		
	Free Elective	Free Elective	3	*BTEC 4350	Biotechnology Capstone	3	
Semester Hours			15	Free Elective	Free Elective	3	
				Semester Hours		12-13	27-28
							120-121

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.