



COLLEGE OF TECHNOLOGY

Bachelor of Science, Biotechnology

Four-Year Academic Map 2019-2020

YEAR 1	Semester 1 Fall			Semester 2 Spring			Total
	BIOL 1361/1161	Intro to Biol Sci. & Lab	4	BIOL 1362/1162	Intro to Biological Science & Lab	4	
	MATH 1330	Pre-calculus	3	CHEM 1331/1111	Fund of Chemistry & Lab	4	
	ENGL 1303	First Year Writing I	3	MATH 1431	Calculus I	4	
	HIST 1377	The United States 1877	3	ENGL 1304	First Year Writing II	3	
	*BTEC 1322	Introduction to Biotechnology	3				
	Semester Hours		16	Semester Hours		15	31

YEAR 2	Semester 1 Fall			Semester 2 Spring			Total
	CHEM 1332/1112	Fund of Chemistry & Lab	4	CHEM 3331/3221	Fund of Organic Chemistry & Lab	5	
	HIST 1378	The United States since 1877	3	BCHS 3201	General Biochemistry Lab	2	
	ELET 2300	Intro to C++ Programming	4	MATH 2311	Intro to Probability & Statistics	3	
	POLS 1336	US & Texas Constitutions & Politics	3	POLS 1337	US Government	3	
	BIOL 3332/3132	Elementary Microbiology & Lab	3	CIS 2334	Information Systems Applications	3	
	Semester Hours		17	Semester Hours		16	33

YEAR 3	Semester 1 Fall			Semester 2 Spring			Total
	BCHS 3304	General Biochemistry	3	PHYS 1301/1101	Intro to Gen Phys I & Lab	4	
	*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	
	PHIL 1305	Introduction to Ethics	3	*BTEC 3301	Prin of Genomics/Protenomics & Bioinformatics	3	
	*TLIM 3363	Technical Communication	3	*TLIM 3340	Organizational Leadership & Super	3	
	Semester Hours		15	Semester Hours		14	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, 4367, 4374; BTEC 3399, 4399; TELS 4342	3	*BTEC 4301/4101	Prin of Bioprocessing & Lab	4 or 3	
	Core Course	Creative Arts	3	or *BTEC 4300	OR Principles of Bioinformatics		
	Core Course	Social & Behavioral Sciences	3	*BTEC 4350	Biotechnology Capstone	3	
	Free Elective	Free Elective	3	Free Elective	Free Elective	3	
Semester Hours		15	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 Sugarland Students should meet with their academic advisor to formulate their own plan.