



COLLEGE OF TECHNOLOGY
Bachelor of Science, Biotechnology
 Four-Year Academic Map 2018-2019

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			
	PHIL 1305	Introduction to Ethics	3							
	Semester Hours				16	Semester Hours				15

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		BIOL 3332/3132	Elementary Microbiology & Lab	4			
	PHYS 1301/1101	Intro to Gen Phys I & Lab	4		MATH 2311	Intro to Probability & Statistics	3			
	POLS 1336	US & Texas Constitutions & Politics	3		POLS 1337	US Government	3			
	Core Course	Creative Arts	3		Core Course	Social/Behavioral Science	3			
	Semester Hours				17	Semester Hours				18

YEAR 3	Semester 1 Fall				Semester 2 Spring				Total	
	BCHS 3304/3201	General Biochemistry & Lab	5		*BTEC 3302	Molecular Genetics & Biotechnology	3			
	*BTEC 1322	Introduction to Biotechnology	3		*BTEC 3317	Biotechnology Regulatory Environment	3			
	ELET 2300	Intro to C++ Programming	3		CIS 2334	Information Systems Applications	3			
	Free Elective		3		*BTEC 3301	Prin of Genomics/Protenomics & Bioinformatics	3			
					Free Elective		3			
	Semester Hours				14	Semester Hours				15

YEAR 4	Semester 1 Fall				Semester 2 Spring				Total	
	*BTEC 3321	Current Good Manufacturing Prac	3		*TELS 3340	Organizational Leadership & Super	3			
	*BTEC 3100	Biotechnology Research Methods and Applications	1		*BTEC 4350	Biotechnology Capstone	3			
	*TELS 3363	Technical Communication	3		*BTEC 4301/4101	Prin of Bioprocessing & Lab	4 or 3			
	*BTEC 3320	Intro to QA/QC in BTEC	3		OR	Principles of Bioinformatics				
	or	OR	3		*BTEC 4319	Microbial Biotechnology	3			
	*BTEC 3345	Prog in Bioinformatics			or	OR				
Approved Elective	Options: BCHS 4306, 4324, 4325, BIOL 4310, 4323, 4365, 4366, 4367, 4374; BTEC 3399, 4399; TELS 4342 OR Info Sys Analysis & Design	3 or 3		CIS 3365	Database Management					
CIS 3343										
Semester Hours				15-16	Semester Hours				12	37-28
									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.