



COLLEGE OF TECHNOLOGY
Bachelor of Science, Biotechnology
 Four-Year Academic Map 2017-2018

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		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	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		35	

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		29	

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	
	*BTEC 3320	Intro to QA/QC in BTEC	3	or	OR	or	
	or	OR	3	*BTEC 4300	Principles of Bioinformatics	3	
	*BTEC 3345	Prog in Bioinformatics					
	Options: BCHS 4306, 4324, 4325, BIOL 4310, 4323, 4365, 4366, 4367, 4374; BTEC 3399, 4399; TELS 4342 OR		3 or 3	*BTEC 4319	Microbial Biotechnology	3	
Approved Elective or CIS 3343	Info Sys Analysis & Design		or CIS 3365	Database Management			
	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.