CULLEN COLLEGE OF ENGINEERING TECHNOLOGY DIVISION

Bachelor of Science, Biotechnology Four-Year Academic Map 2023-2024

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

	Semester 1 Fall			Semester 2 Spring			Total
YEAR 2	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	
	Core Course	Creative Arts	3	HIST 1302	U. S. since 1778	3	
	GOVT 2306	US & Texas Constitution & Politics	3	PHYS 1301	College Phys I	3	
	MATH 1342	Elem Statistical Methods	3	GOVT 2305	US Government	3	
	Semester Hours		17	Semester Hours		16	33

	Semester 1 Fall			Semester 2 Spring			Total
YEAR 3	BCHS 3304	General Biochemistry	3	*CIS 2334	Information Systems Applications	3	
	Core Course	Social & Behavioral Sciences	3	*BTEC 3200	Biotechnology Research Methods and Applications	2	
	*BTEC 2322	Introduction to Biopython	3	*BTEC 3321	Current Good Manufacturing Prac	3	
	*BTEC 3317	Biotechnology Regulatory Environment	3	*BTEC 3301	Prin of Genomics/Proteomics & Bioinformatics	3	
	*BTEC 3302	Molecular Genetics & Biotechnology	3	*TLIM 3363	Technical Communication	3	
	Semester Hours		15	Semester Hours		14	29

	Semester 1 Fall		Semester 2 Spring		Total		
YEAR 4	*BTEC 3320 or ELET 4350	Intro to QA/QC in BTEC OR Computational Health Informatics	3	*BTEC 4319 or Approved elective	Microbial Biotechnology OR See advisor	3	
	Approved Elective	See advisor	3	*BTEC 4301/4101 or *BTEC 4300/4100	Prin of Bioprocessing & Lab OR Principles of Bioinformatics & Lab	4	
	*TLIM 3340	Organizational Leadership & Super	3	*BTEC 4350	Biotechnology Capstone	3	
	*BTEC 4249	Biotechnology Capstone I	32	Free Elective	Free Elective	3	
	Free Elective	Free Elective	3				
	Semester Hours		14	Semester Hours		13	27
							120

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

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

^{*}Courses taught in Sugar Land