CULLEN COLLEGE OF ENGINEERING
TECHNOLOGY DIVISION
Bachelor of Science, Biotechnology
Four-Year Academic Map 2025-2026

YEAR 1

Semester 1 Fall			Semester 2 Spring			Total
ENGL 1301	**First Year Writing I**	3	**ENGL 1302**	**First Year Writing II**	3	
MATH 2413	**Calculus I**	4	**MATH 1342**	**Elem Statistical Methods**	3	
BIOL 1306/1106	**Biology for Science Majors I**	4	**BIOL 1307/1107**	**Biology for Science Majors II**	4	
CHEM 1311/1111	**General Chemistry I & Lab**	4	**CHEM 1312/1112**	**General Chemistry II & Lab**	4	
			HIST 1301	U. S. to 1877	3	
Semester Hours		15	Semester Hours		17	32

YEAR 2

Semester 1 Fall			Semester 2 Spring			Total
BIOL 2321/2121	**Microbiology Science Majors & Lab**	4	**BTEC 1322**	**Intro to Biotechnology**	3	
CHEM 2323/2123	**Fund of Organic Chemistry & Lab**	4	**BCHS 3304**	**General Biochemistry**	3	
PHIL 1305	Introduction to Ethics	3	Core Course	Creative Arts	3	
PHYS 1301	College Phys I	3	HIST 1302	U. S. since 1778	3	
GOVT 2305	US Government	3	GOVT 2306	US & Texas Constitution & Politics	3	
Semester Hours		17	Semester Hours		15	32

YEAR 3

Semester 1 Fall			Semester 2 Spring			Total
***BTEC 2322**	**Introduction to Biopython**	3	***BTEC 3301**	**Intro to Bioinformatics**	3	
***BTEC 3317**	**Biotech Regulatory Environment**	3	***BTEC 3200**	**Biotech Research Methods & Apps**	2	
Core Course	Social & Behavioral Sciences	3	***BTEC 3302**	**Molecular Genetics & Biotech**	3	
Approved elective	See advisor	3	***BTEC 3321**	**Current Good Manufacturing Prac**	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 4249**	**Biotechnology Capstone I**	2	*BTEC 4350	Biotechnology Capstone	3	
*BTEC 4301/4101 or *BTEC 4300/4100	Prin of Bioprocessing & Lab **OR** Applied Bioinformatics & Lab	3	*BTEC 4319 or *ELET 4350	Microbial Biotechnology **OR** Computational Health Informatics	3	
*BTEC 4320 or Approved elective	Intro to QA/QC in BTEC **OR** See advisor	3	*ELET 4356 or *CIS 2334	Information Visualization or Information Systems App	3	
			Approved elective	See advisor	3	
Free Elective	Free Elective	3	Free Elective	Free Elective	3	
Semester Hours		12	Semester Hours		15	27
						120

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.

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