



College of Technology

Bachelor of Science - Biotechnology

Four-Year Academic Map 2014-2015

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

Year 2	Semester 1			Semester 2			Total
	ELET 2300	Introduction to C++ Programming	3	CIS 2334	Information Systems Applications	3	
	PHYS 1301/1101	Intro to General Physics I & Lab	4	MATH 2311	Intro to Probability & Statistics	3	
	CHEM 1332/1112	Fundamentals of Chemistry & Lab	4	BIOL 3332/3122	Elementary Microbiology & Lab	4	
	BTEC 2320	Biotechnology Regulatory Environment	3	CHEM 3331/3221	Fundamentals of Organic Chemistry & Lab	5	
	Semester Hours			14	Semester Hours		15

Year 3	Semester 1			Semester 2			Total
	BIOL 3301	Genetics	3	TELS 3363	Technical Communication	3	
	BTEC 3321	Current Good Manufacturing Processes	3	BIOL 4320	Molecular Biology	3	
	BTEC 3100	Biotechnology Research Methods and Applications	1	CORE	Social & Behavioral Sciences	3	
	BCHS 3304/3201	General Biochemistry & Lab	5	HIST 1378	The United States since 1877	3	
	BTEC 3320	Intro to QA/QC in BTEC	3	Approved Elective	Options: BCHS 4306, 4324, 4325, BIOL 4310, 4323, 4365, 4366, 4367, 4374 BTEC 3399, 4399, TELS 4350	3	
	or	OR					
	CIS 3343	Information Sys Analysis & Design					
Semester Hours			15	Semester Hours		15	30

Year 4	Semester 1			Semester 2			Total	
	PHIL 1305	Introduction to Ethics	3	CORE	Language, Philosophy & Culture	3		
	POLS 1336	US & Texas Constitutions & Politics	3	Elective	Approved Elective	3		
	TELS 3340	Organizational Leadership & Super	3	BTEC 4350	Biotechnology Capstone	3		
	BTEC 3301	Princ of Genomics/Protenomics & Bioinformatics	3	POLS 1337	US Government	3		
	BTEC 4319	Microbial Biotechnology		BTEC 4301/4101	Principles of Bioprocessing & Lab	4		
	or	OR		or	OR	or		
	CIS 3365	Database Management	3	BTEC 4300	Principles of Bioinformatics	3		
	Semester Hours			15	Semester Hours		15-16	
							120-121	

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

