

Bachelor of Science Degree Biotechnology (BIOTECH) Based on Fall 2023-2024 catalog

First Year		Second Year		Third Year		Fourth Year	
First Semester FALL	Second Semester SPRING	Third Semester FALL	Fourth Semester SPRING	Fifth Semester FALL	Sixth Semester SPRING	Seventh Semester FALL	Eighth Semester SPRING
<p>BIOL 1306/1106 4 NS Biology for Sci Majors I & Lab FALL ONLY P: MATH 1314 or equiv</p> <p>GOVT 2306 3 POLS US & Texas Const & Politics P: None</p> <p>MATH 2312 3 Math Precalculus P: C- in MATH 1314 or satisfactory score on placement exam</p> <p>ENGL 1301 3 Comm First Year Writing I P: app score on TSI</p> <p>HIST 1301 3 Hist The U.S. to 1877 P: None</p>	<p>BIOL 1307/1107 4 major Biology for Sci Majors II & Lab SPRING ONLY P: MATH 1314 or equiv</p> <p>CHEM 1311/1111 4 NS Fund of Chemistry I & Lab P: MATH 2312 or equiv</p> <p>MATH 2413 4 MATH Calculus I P: C- in MATH 2312 or satisfactory score on placement exam</p> <p>ENGL 1302 3 Comm First Year Writing II P: ENGL 1301 or equivalent</p>	<p>BIOL 2321/2121 4 major Microbiology for Sci majors & lab P: BIOL 1306 & 1307</p> <p>CHEM 1312/1112 4 major Fund Chemistry 2 & Lab P: MATH 2312 or equiv & CHEM 1311</p> <p>GOVT 2305 3 POLS US Government P: None</p> <p style="text-align: center;">3</p> <p>Creative Arts Choose from core approved list</p> <p>MATH 1342 3 math/reas Elem Statistical Methods or PSYC 2317 or TMTH 3360 or MATH 3339 P: None</p>	<p>PHYS 1301 3 NS College Physics I P: MATH 2312 or equiv</p> <p>CHEM 2323/2123 4 major Fundamentals of Organic Chemistry I & Lab P: CHEM 1312/1112</p> <p>*BTEC 1322 3 major Introduction to Biotechnology P: None</p> <p>HIST 1302 3 Hist The U.S. Since 1877 P: None</p> <p>PHIL 1305 3 LP&C Introduction to Ethics (Recommended for core L, P & C) P: ENGL 1301 or equivalent</p>	<p>*BTEC 2322 3 math Introduction To Biopython P: BIOL 1306 or BIOL 1307 or BTEC 1322</p> <p>BCHS 3304 3 major General Biochemistry P: CHEM 2323</p> <p>*BTEC 3317 3 major Biotechnology Regulatory Environment P: Min of C- in BTEC 1322</p> <p>*CIS 2334 3 Information Systems Applications P: None</p> <p style="text-align: center;">3</p> <p>Social & Behav Sciences Choose from core approved list</p>	<p>*BTEC 3200 2 major Biotechnology Research Methods & Applications P: C- in BTEC 1322 & BIOL 2321/2121 & enrolled or taken BTEC 3302 & major</p> <p>*BTEC 3301 3 major Principles of Genomics/ Proteomics & Bioinformatics P: C- in BTEC 1322 & MATH 1342 & enrolled or taken BTEC 3302</p> <p>*BTEC 3302 3 major Molecular Genetics & Biotechnology P: C- in all BIOL 1306/1106, 1307/1107, CHEM 1312 & BTEC 1322</p> <p>*BTEC 3321 3 major Current Good Manuf Practices P: Min of C- in BTEC 3317</p> <p>*TLIM 3363 3 WID Technical Communication P: ENGL 1302 with C or better</p>	<p>*BTEC 3320 3 major BIOMANUFACTURING Intro to QA/QC in BTEC P: BTEC 3317 ELET 4350 3 major BIOINFORMATICS Approved Elective</p> <p>*BTEC 4249 2 major Biotechnology Capstone I P: C- min BTEC 3200, BTEC 3301 & BTEC 3302</p> <p>Approved Elec 3 major See list below</p> <p>*TLIM 3340 3 Organizational Leadership & Supervision or HDGS 3300 P: Enrolled or Taken TLIM 3363</p> <p style="text-align: center;">3</p> <p>Free Elective</p>	<p>*BTEC 4319 3 major BIOMANUFACTURING Microbial Biotech P: Min of C- in BTEC 3200 coreq BTEC 3302 ELET 4350 3 major BIOINFORMATICS Computational Health Informatics P: TLIM 3363 or WID</p> <p>*BTEC 4350 3 major Biotechnology Capstone II P: BTEC 4249</p> <p>*BTEC 4301/410 4 major BIOMANUFACTURING Prin of Bioprocessing P: C- in all of BTEC 3200, 3302, 3321, & BCBS 3304 *BTEC 4300/410 4 major BIOINFORMATICS Prin of Bioinformatics & lab P: C- in BTEC 3301 & enrolled or taken BTEC 4100</p> <p style="text-align: center;">3</p> <p>Free Elective</p>
16	15	17	16	15	14	14	13
						Total credit hours required =	120

Approved Electives: BCBS 4306, 4324, 4325
BIOL 3306, 4310, 4323, 4365, 4366, 4367, 4374
CIS 3343, 4365
ELET 4351, 4352, 4356
TLIM 3355, 4342, 4350

Students must complete *either* the Biomanufacturing or Bioinformatics Track.
Biomanufacturing: BTEC 3320, BTEC 4319, BTEC 4301/4101
Bioinformatics: BTEC 4300/4100, ELET 4350, 3 hrs Approved el

* taught in Sugar Land
 Core coursework
 College departmental requirements
 major requirements
 free elective

Courses required for Degree are based on catalog year student declares major, please verify this is the correct course sequence.