

BIOTECHNOLOGY (BTEC)

UNIVERSITY OF HOUSTON
COLLEGE OF TECHNOLOGY

ENGINEERING TECHNOLOGY DEPARTMENT
BACHELOR OF SCIENCE

NAME _____ PS _____

UNIVERSITY CORE REQUIREMENTS

	GR	SH	AH
<u>Communication (6 SH)</u>			
ENGL 1303 English Composition I	_____	_____	_____
ENGL 1304 English Composition II	_____	_____	_____

Writing in the Discipline* (3 SH)

TELS 3363 Technical Communication	_____	_____	_____
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History/Government (12 SH)

HIST 1376 or 1377 US History to 1877	_____	_____	_____
HIST 1378 or 1379 US History since 1877	_____	_____	_____
POLS 1336 US & TX Const/Politics	_____	_____	_____
POLS 1337 US Government	_____	_____	_____

Language, Philosophy, & Culture* (3 SH)

PHIL 1305 Ethics (recommended)	_____	_____	_____
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Creative Arts* (3 SH)

_____	_____	_____	_____
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Social/Behavioral Science* (3 SH)

_____	_____	_____	_____
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Math Reasoning/BS Special Requirement (13 SH)**

ELET 2300 Intro to C++ programming	_____	_____	_____
MATH 1330 Precalculus	_____	_____	_____
MATH 1431 Calculus I	_____	_____	_____
MATH 2311 Intro Probability & Statistics	_____	_____	_____
or PSYC 3301 or TMTH 3360			

** Students are required to have credit for College Algebra through the Math Placement Exam, CLEP or completion of the course.

Life & Physical Sciences* (8 SH)

BIOL 1361/1161 Intro to Biological Science	_____	_____	_____
CHEM 1331/1111 Fund of Chem & Lab	_____	_____	_____

COLLEGE AND DEPARTMENT REQUIREMENTS (10 SH)

CIS 2334 Information Systems Apps	_____	_____	_____
PHYS 1301/1101 Intro to General Phy & Lab	_____	_____	_____
TELS 3340 Org Leadership & Supervision	_____	_____	_____
or HDCS 3300 Organizational Decisions in Technology			

*Refer to class schedule for lists of courses which satisfy University requirements.

36 advanced (3000- or 4000-level) semester hours must be completed.

Total hours required: 120-121 semester hours

Texas Success Initiative requirements must be met.

For graduation with Honors, see Undergraduate Catalog.

BS Special Requirements: students must complete 12 hours of quantitative & formal sciences including at least 6 hours of MATH coursework for any Bachelor of Science degree (see catalog).

MAJOR CORE REQUIREMENTS

	GR	SH	AH
BIOL 1362 Intro to Biological Science	_____	_____	_____
BIOL 1162 Intro to Biological Science Lab	_____	_____	_____
BTEC 1322 Intro to Biotechnology	_____	_____	_____
CHEM 1332 Fund of Chem	_____	_____	_____
CHEM 1112 Fund of Chem Lab	_____	_____	_____
BCHS 3304 Gen Biochemistry	_____	_____	_____
BCHS 3201 Gen Biochemistry Lab	_____	_____	_____
BIOL 3332 Elem Microbiology	_____	_____	_____
BIOL 3132 Elem Microbiology lab	_____	_____	_____
BTEC 3100 Biotech Research Methods	_____	_____	_____
BTEC 3301 Prin of Geon/Proteom/Bioinf	_____	_____	_____
BTEC 3302 Molecular Genetics & Biotech	_____	_____	_____
BTEC 3317 Biotechnology Regulatory Env	_____	_____	_____
BTEC 3321 Current Good Manufac Prac	_____	_____	_____
CHEM 3221 Organic Chemistry Lab	_____	_____	_____
CHEM 3331 Fund of Organic Chemistry	_____	_____	_____
BTEC 4350 Capstone Experience	_____	_____	_____

Choose either the Biomufacturing or Bioinformatics Track.

Biomufacturing Track (13 SH Minimum)

BTEC 3320 Intro QA/QC	_____	_____	_____
BTEC 4301 Principles of Bioprocessing	_____	_____	_____
BTEC 4101 Prin of Bioprocessing Lab	_____	_____	_____
BTEC 4319 Microbial Biotechnology	_____	_____	_____
***Approved Elective(3SH)	_____	_____	_____

Bioinformatics Track (12 SH Minimum)

CIS 3343 System Analysis & Design	_____	_____	_____
CIS 3365 Database Design	_____	_____	_____
BTEC 4300 Prin of Bioinformatics	_____	_____	_____
***Approved Elective (3SH)	_____	_____	_____

Free Elective (6 SH)

_____	_____	_____	_____
_____	_____	_____	_____

*****Electives to be chosen from approved list.**

Approved Electives:

BTEC 3345, 3399, 4399
BCHS 4306, 4324, 4325
BIOL 3306, 4310, 4323 4365, 4366, 4367, 4374
TELS 4342

APPROVALS:

Student Signature Date

Advisor