## UNIVERSITY CORE REQUIREMENTS

### Communication (6 SH)
- ENGL 1303 English Composition I
- ENGL 1304 English Composition II

### Writing in the Discipline* (3 SH)
- TELS 3363 Technical Communication

### 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)

### Creative Arts* (3 SH)

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

### 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 1311/1111 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

### Free Elective (3 SH)

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

### Total Hours Required: 36 advanced (3000- or 4000-level) semester hours must be completed.

## MAJOR CORE REQUIREMENTS

### BIOL 1362 Intro to Biological Science

### BTEC 3322 Intro to Biotechnology

### CHEM 1332 Fund of Chem

### CHEM 1112 Fund of Chem Lab

### BCHS 3304 Gen Biochemistry

### BCHS 3201 Gen Biochemistry Lab

### BIOL 3301 Genetics

### BIOL 3332 Elem Microbiology

### BIOL 3132 Elem Microbiology Lab

### BTEC 3100 Biotech Research Methods

### BTEC 3301 Prin of Geon/Proteom/Bioinf

### BTEC 3317 Biotechnology Regulatory Env

### BTEC 3321 Current Good Manufac Prac

### CHEM 3221 Organic Chemistry Lab

### CHEM 3331 Fund of Organic Chemistry

### BIOL 4320 Molecular Biology

### BTEC 4350 Capstone Experience

Choose either the Biomanufacturing or Bioinformatics Track.

### Biomanufacturing Track (13 SH Minimum)
- BTEC 3320 Intro QA/QC
- BTEC 4301 Principles of Bioprocessing
- BTEC 4101 Prin of Bioprocessing Lab
- BTEC 4319 Microbial Biotechnology

### Bioinformatics Track (12 SH Minimum)
- CIS 3343 System Analysis & Design
- CIS 3365 Database Design
- BTEC 4300 Prin of Bioinformatics

***Electives to be chosen from approved list.

Approved Electives:
- BTEC 3399, 4399
- BCHS 4306, 4324, 4325
- BIOL 3306, 4310, 4323 4365, 4366, 4367, 4374
- TELS 4342

### APPROVALS:

Student Signature

Advisor

Department Chair

Fall 2015

5/8/2015