

APPLIED ENGINEERING & TECHNOLOGIES

BIOPHARMACEUTICAL TECHNOLOGY

Biopharmaceutical Technology Degree - A20180

The Biopharmaceutical Technology curriculum is designed to prepare graduates for employment in pharmaceutical manufacturing and related industries, including chemical quality assurance, microbiological quality assurance, product inspection, documentation review, manufacturing, and product/process validation.

Biopharmaceutical Regulations Certificate - C20180B

This is an introduction to regulatory and applied science course work. This certificate is the first of three "stackable" certificates embedded within the Biopharmaceutical Technology Program.

Biopharmaceutical Manufacturing and Quality Certificate - C20180C

The courses in this certificate emphasize manufacturing processes and quality control procedures applicable to the biopharmaceutical industry and is the second of the "stackable" certificates.

Advanced Biopharmaceutical Practices Certificate - C20180D

The courses in this certificate provide more detail and very specific applications within the industry. This certificate is the third of the three "stackable" certificates of the Biopharmaceutical Technology Program.

Pharmaceutical Basics Certificate - C20180E

Program Sequence

First Semester

BPM 110	Bioprocess Practices.....	5
CHM 131	Introduction to Chemistry	3
CHM 131A	Introduction to Chemistry Lab	1
PTC 110	Industrial Environment	3
ENG 111	Expository Writing	3
MAT 121	Algebra/Trigonometry.....	3

Complete Biopharmaceutical Regulations Certificate (C20180B):
BPM 110, CHM 131, CHM 131A, PTC 110

Second Semester

BIO 110	Principles of Biology.....	4
CHM 132	Organic and Biochemistry	4
ISC 121	Envir Health & Safety	3
PTC 120	Pharmaceutical Quality Control.....	4
ENG 114	Professional Research and Reporting	3

Third Semester

ENV 212	Instrumentation	4
PTC 210	Pharmaceutical Industrial Processes	4
PTC 222	Pharmaceutical Process Control.....	3
HUM 110	Technology and Society	3
PSY 118	Interpersonal Psychology	3

Complete Biopharmaceuticals Manufacturing & Quality Certificate (C20180C): CHM 132, PTC 120, PTC 210, PTC 222

Fourth Semester

PTC 212	Applied Microbiology	4
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PTC 214	Parenteral Processes	4
PTC 226	Validation.....	3
PTC 228	Pharmaceutical Issues	1
Elective List I	3

Complete Advanced Biopharmaceutical Practices Certificate (C20180D): PTC 212, PTC 214, PTC 226, PTC 228

Complete Pharmaceutical Basics Certificate (C20180E): BPM 110, ISC 121, PTC 110, PTC 120, PTC 228

Elective List I (Select 3 hours from the following courses):

CIS 110	Intro to Computers.....	3
EGR 115	Introduction to Technology	3
ISC 135	Principles of Industrial Management.....	4
ISC 237	Quality Management	3
WBL 111	Work-Based Learning I.....	1

Graduation Requirements 68 Credit Hours