

**PROGRAM PLANNING GUIDE**

**BIOPHARMACEUTICAL TECHNOLOGY**

**A20180**

Replaces Curriculum Schedule with Revision Date: FA2019

Date Revised: FA2020

**CURRICULUM BY SEMESTER**

			Hours Per Week		
Course No.	Course Title		Class	Lab	Credits
Fall Semester 1					
CHM	131	Introduction to Chemistry	3	0	3
CHM	131A	Introduction to Chemistry Lab	0	3	1
ENG	111	Writing and Inquiry	3	0	3
HUM	110	Technology and Society	3	0	3
MAT	121	Algebra/Trigonometry I	2	2	3
PTC	110	Industrial Environment <sup>B,E</sup>	3	0	3

Spring Semester 1					
BIO	110	Principles of Biology	3	3	4
CHM	132	Organic and Biochemistry	3	3	4
PTC	120	Pharmaceutical Quality Control <sup>C,E</sup>	3	2	4
		Major Elective <sup>E</sup>			3

Summer Semester 1					
ENG	114	Professional Research & Reporting	3	0	3
ISC	121	Environmental Health & Safety <sup>B</sup>	3	0	3

Fall Semester 2					
BPM	110	Bioprocess Practices <sup>B,E</sup>	3	4	5
ENV	212	Instrumentation <sup>D</sup>	3	3	4
PTC	210	Pharmaceutical Industrial Processes <sup>C</sup>	3	2	4
PTC	222	Pharmaceutical Process Control <sup>C</sup>	2	2	3

Spring Semester 2					
PSY	118	Interpersonal Psychology	3	0	3
PTC	212	Applied Microbiology <sup>D</sup>	3	2	4
PTC	214	Parenteral Processes <sup>D</sup>	3	2	4
PTC	226	Validation <sup>C</sup>	3	0	3
PTC	228	Pharmaceutical Issues <sup>B</sup>	1	0	1

**Graduation Requirement Credit Hours:** 68

Registrar's Office Approved 5/7/20

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<b>MAJOR ELECTIVES</b>								
<b>Course No.</b>			<b>Course Title</b>			<b>Hours Per Week</b>		
						<b>Class</b>	<b>Lab</b>	<b>Credits</b>
Credit Hours Needed:			3					
CIS	110	Introduction to Computers			2	2	3	
EGR	115	Intro to Technology			2	3	3	
EGR	115A	Intro to Technology Lab			0	3	1	
WBL	111	Work-Based Learning I			0	10	1	
WBL	112	Work-Based Learning I			0	20	2	
WBL	113	Work-Based Learning I			0	30	3	

Biopharmaceutical Certificates:

C20180B Biopharmaceutical Regulations<sup>B</sup>

C20180C Biopharmaceutical Manufacturing and Quality<sup>C</sup>

C20180D Advanced Biopharmaceutical Practices<sup>D</sup>

C20180E Pharmaceutical Basics<sup>E</sup>