

PROGRAM PLANNING GUIDE

**BIOPHARMACEUTICAL TECHNOLOGY
A20180**

Replaces Curriculum Schedule with Revision Date: FA2015

Date Revised: FA2016

CURRICULUM BY SEMESTER

			Hours Per Week		
Course No.	Course Title	Class	Lab	Credits	
Fall Semester 1					
BPM	110	Bioprocess Practices ^{B,E}	3	4	5
CHM	131	Introduction to Chemistry ^B	3	0	3
CHM	131A	Introduction to Chemistry Lab ^B	0	3	1
PTC	110	Industrial Environment ^{B,E}	3	0	3
ENG	111	Writing and Inquiry	3	0	3
MAT	121	Algebra/Trigonometry I	2	2	3

Spring Semester 1					
BIO	110	Principles of Biology	3	3	4
CHM	132	Organic and Biochemistry ^C	3	3	4
ISC	121	Envir Health & Safety ^E	3	0	3
PTC	120	Pharmaceutical Quality Control ^{C,E}	3	2	4
ENG	114	Professional Research & Reporting	3	0	3

Fall Semester 2					
ENV	212	Instrumentation	3	3	4
PTC	210	Pharmaceutical Industrial Processes ^C	3	2	4
PTC	222	Pharmaceutical Process Control ^C	2	2	3
HUM	110	Technology and Society	3	0	3
PSY	118	Interpersonal Psychology	3	0	3

Spring Semester 2					
PTC	212	Applied Microbiology ^D	3	2	4
PTC	214	Parenteral Processes ^D	3	2	4
PTC	226	Validation ^D	3	0	3
PTC	228	Pharmaceutical Issues ^{D,E}	1	0	1
		Major Elective			3

Graduation Requirement Credit Hours: 68

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MAJOR ELECTIVES					
			Hours Per Week		
Course No.	Course Title		Class	Lab	Credits
Major Electives 1		Credit Hours Needed:	3		
CIS	110	Introduction to Computers	2	2	3
EGR	115	Introduction to Technology			3
ISC	135	Principles of Industrial Management	4	0	4
ISC	237	Quality Management	2	3	3
WBL	111	Work-Based Learning I		10	1

Biopharmaceutical Technology Certificates:

- C20180B Biopharmaceutical Regulations^B
- C20180C Biopharmaceutical Manufacturing and Quality^C
- C20180D Advanced Biopharmaceutical Practices^D
- C20180E Pharmaceutical Basics^E