## MAJOR IN BIOTECHNOLOGY AND PREREQUISITES FOR THE ACCELERATED PHARMACY PROGRAM WITH MASSACHUSETTS COLLEGE OF PHARMACY AND HEALTH SCIENCES

Requirements for a Major in Biotechnology and to meet the prerequisites for the Accelerated Pharmacy Program with Massachusetts College of Pharmacy and Health Sciences (MCPHS)

Code	Title	Credits	
Requirements for a Major in Biotechnology (39 credits)			
BI-141	Intro to Cellular and Molecular Biology	4	
BI-204	Microbiology	4	
BT-375	Tissue Culture	4	
BT-376	Biotechnology	4	
BT-410	Biotechnology Seminar	1	
CH-120 & CH-121	General Chemistry I and General Chemistry II	8	
CH-201 & CH-203	Organic Chemistry I (lecture) and Organic Chemistry Laboratory I	5	
CH-210	Chemical Analysis: an Introduction to Modern Methods	5	
CH-410	Biochemistry I	4	
Major Electives		(8 credits)	
Select two of the following	g electives:	8	
BI-313			
BI-398	Cancer Biology		
BI-372	Immunology		
BI-371	Advanced Topics in Cell and Molecular Biology		
BI-375	Virology		
CH-350	Medicinal Chemistry		
CH-202	Organic Chemistry II (lecture)		
CH-204	Organic Chemistry Laboratory II		
PY-310	Modern Physics		
CH-411	Biochemistry II		
BT-377	Fermentation Technology		
BT-378	Bioinformatics		
BT-450	Internship in Biotechnology		
CH-335	Green Chemistry		
CH-450	Computational Chemistry		
CH-455	Special Topics in Chemistry (Organometallics in Organic Synthesis)		

And certain other BI 300, CH 300 and PY 300 level courses with Biotech coordinator approval.

Ancillary courses		(32 credits)
MA-150	Statistics I	3
MA-190	Pre-calculus (may be waived)	4
MA-200	Calculus I	4
MA-201	Calculus II	4
or BI-203	Genetics	

MA-150	Statistics I	3	
Select one of the following	8		
PY-221 & PY-222	General Physics I and General Physics II (8)		
PY-241 & PY-242	Physics I (Mechanics) and Physics II ( Electricity, Magnetism and Optics ) (8)		
CS-120	Microcomputer Applications	3	
EN-252	Technical Writing	3	
or EN-253	Business Communications		
Accelerated Pharmacy Pro	(14 credits)		
Pharmacy and Health Science University			
BI-140	Introduction to Organismal Biology	4	
BI-200	Human Biology	4	
or BI-161	Human Anatomy and Physiology I		
CH-202	Organic Chemistry II (lecture)	3	
Math or Computer Science	3		
Total Credits		93	