Drexel University

Department of Biology

Undergraduate Curriculum Sequence for the Biological Sciences Major

Cell/Mol Bio/Genetics/Biochem Concentration

Pharmaceutics Focus Area

5 CO-OP Sp/Su COOP

FALL		WINTER		SPRING	SUMMER
Freshman					
BIO 122 Cells & Genetics	4.5	BIO 124 Evolution & Org Diversity	4.5	BIO 126 Physiology & Ecology 4.5	
CHEM 101 General Chemistry I	3.5	CHEM 102 General Chemistry II	4.5	CHEM 103 General Chemistry III 5	MACATION
ENGL 101 Expos Writing and Read	3	ENGL 102 Persuasive Writing & Read	3	ENGL 103 Analytical Writing & Read 3	VACATION
MATH 101 or 121	4	MATH 102 or 122	4	MATH 239 or 123 4	
UNIV 101 The Drexel Experience	1	UNIV 101 The Drexel Experience	2	Co-op	
	16		18	16.5	
Sophomore					
BIO 217 Evolution	4	BIO 218 Principles of Molecular Bio	4		
BIO 219 Techniques in Molecular Bio	2.5	CHEM 242 Organic Chemistry II	4		
CHEM 241 Organic Chemistry I	4	CHEM 244 Organic Chemistry Lab I	3	COOP	COOP
PHYS 152 Introductory Physics I	4	PHYS 153 Introductory Physics II	4		
	14.5		15		
Pre-Junior					
BIO 214 Principles of Cell Bio	3	BIO 224 Vertebrates	4		
CHEM 243 Organic Chemistry III	3	BIO 225 Vertebrate Lab	2		
CHEM 245 Organic Chemistry Lab II	3	*BIO 244 Genetics	3	COOP	COOP
PHYS 154 Introductory Physics III	4	PHIL 251 Ethics	3		
Science Tech. Human Affairs Elective	3	Free Elective	3		
	16		15		
Junior					
BIO 311 Metabolism	4	BIO 314 Pharmacology	3		
Biology Laboratory Requirement	2	Biology Laboratory Requirement	2		
MATH 410 Scientific Data Analysis I	3	MATH 411 Scientific Data Analysis II	3	COOP	COOP
COM 230 Techniques of Speaking	3	COM 310 Technical Writing	3		
Free Elective	3	Free Elective	3		
	15		14		
Senior					
BIO 270 Developmental Bio	3	BIO/ENVS Elective	3	BIO/ENVS Elective 3	
BIO 404 Struct & Func Biomol	4	BIO 472 Seminar in Biological Science	2	BIO 473 Seminar in Biological Science 2	GRADUATION
BIO 471 Seminar in Biological Science	2	Humanities/Social Science Elective	3	Humanities/Social Science Elective 3	
Humanities/Social Science Elective	3	Free Elective	3	Free Elective 3	183 credits
Free Elective	3	Free Elective	3	Free Elective 3	
	15		14	14	

Courses in Blue are Courses Required for this Concentration

Courses in Red are Electives for this Concentration

^{*}OR BIO 444 Human Genetics may be substituted.