

Plan of Study

Biology for Pre-Optometry

Catalog Year: 2022-2023

Sample Schedule: students are not limited to this plan; it is meant to serve as a guide for planning purposes in discussions with your academic advisor. This plan is one possible path to completing this degree in *four years*.

	FIRST YEAR		
First Semester			
Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 145-Intro to Sci. Inquiry		1	F
BIOL 151 General Biology I* and Lab		4	F
CHEM 112 General Chemistry I * and Lab	Math 114, 115, 129, 121, 123, 125 or 281	4	F
MATH 1XX College Algebra/Trigonometry/Calculus I	Placement reports determine	3-4	Varies
CSC 105 Intro to Computers		3	F,S,SU
	Total Credit Hours	15-16	
Second Semester		I.	I
Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 153 General Biology II * and Lab		4	S
ENGL 101 Composition I*		3	F,S
CHEM 114 General Chemistry II*	CHEM 112 and Lab	4	S
Social Science (Psychology) **		3	F,S
CIS 123 Prob. Solving or CSC 150 Comp. Science I		3	F,S,SU
	Total Credit Hours	17	
	Second Year		1
Third Semester	2000.141.041		
Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 331 Microbiology** and Lab	BIOL 151 and Lab	4	F
BIOL 280 Inquiry and Analysis in Biology and Lab	BIOL 151 and Lab or BIOL 153 and Lab	2	F
CHEM 326 Organic Chemistry I*	CHEM 114 and Lab	3	F
CHEM 326L Organic Chemistry I Lab*		1	F
Arts and Humanities		3	Varies
Social Science (Sociology)		3	F,SU
	Total Credit Hours	16	,
Fourth Semester	Total cical floats	10	
Course	Prerequisites / Comments	Credits	Semester Offered
BIOL 221 Human Anatomy** and Lab	BIOL 151 and Lab	4	S
CHEM 328 Organic Chemistry II*	CHEM 326 and Lab		
CHEM 328L Organic Chemistry II Lab*	CHEIVI 320 dIIU LdD	3	S S
SPCM 101 Oral Communications*		1	
MATH 281 Statistics**		3	F,S
MATH 281 Statistics***		3	F ,S,SU
	Total Credit Hours	15	

THIRD YEAR					
Fifth Semester					
Course	Prerequisites / Comments	Credits	Semester Offered		
BIOL 311 Ecology and Lab	BIOL 151 and Lab; or BIOL 153 and Lab	4	F Odd Years		
BIOL 325 Physiology** and Lab	BIOL 151 and Lab; or BIOL 153 and Lab; or Biol 221	4	F		
	and Lab; or CHEM 112 and Lab				
PHYS 211 University Physics I* and Lab	Math 123 or Math 125	4	F		
ENGL 201 Composition II*	ENGL 101	3	F,S		
	Total Credit Hours	15			
Sixth Semester					
Course	Prerequisites / Comments	Credits	Semester Offered		
BIOL 371 Genetics** and Lab	BIOL 101 and Lab; or Biol 151 and Lab	4	S Even Years		
CHEM 460 Biochemistry** and Lab	CHEM 326 and Lab	3	S Even Years		
BIOL Bioinformatics	BIOL 151 and Lab;	3	S Odd Years		
PHYS 213 University Physics II* and Lab	MATH 123 and PHYS 211 and Lab	4	S		
Arts and Humanities		3	Varies		
	Total Credit Hours	17			
	FOURTH YEAR		1		
Seventh Semester					
Course	Prerequisites / Comments	Credits	Semester Offered		
BIOL 422 Immunology and Lab	BIOL 151 and Lab; and CHEM 112 and Lab	3	F Even Years		
BIOL Elective		4	Varies		
CHEM/EXS/PHYS Elective		3	Varies		
Social Science		3	Varies		
	Total Credit Hours	13			
Eighth Semester					
Course	Prerequisites / Comments	Credits	Semester Offered		
BIOL 343 Cell Molecular Biology** and Lab	BIOL 151 and Lab	4	S Odd Years		
BIOL 498 Undergrad. Research	Consent of instructor	2	F,S,SU		
BIOL/CHEM/EXS/PHYS Elective		4	Varies		
BIOL 303 Intro to Biological Instrumentation	BIOL 151 and Lab; CSC 105	3	S Even Years		
ENGL 379 Tech Communications	ENG 201	3	S		
	Total Credit Hours	16			

^{*} Required for all optometry schools

Information is subject to change. This is not a contract.

Semester: F = Fall; S = Spring; SU = Summer (online only)

^{**} Required or recommended by many optometry schools