

Major/Program	Biology (Pre-Optometry)
College	Science and Mathematics
Department	Biology
Contact	Dave Slimmer, Dean
2017-2018	

Lander University
4-Year Major Guide

	First Semester			Second Semester			TOTALS
	Course	Notes	Hours	Course	Notes	Hours	
First Year	BIOL 111		4	BIOL 112		4	
	CHEM 111	Laboratory Science (General Education)	4	CHEM 112	Laboratory Science (General Education)	4	
	MATH 123 or MATH 141	Mathematics (General Education)	3	MATH 211	Logic & Analytical Thought (General Education)	3	
	ENGL 101	Writing (General Education)	3	ENGL 102	Writing (General Education)	3	
	LINK 101	University Requirement	1	PSYC 101	Behavioral Science (General Education)	3	
	Subtotal 15			Subtotal 17			Yearly Totals 32

	First Semester			Second Semester			TOTALS
	Course	Notes	Hours	Course	Notes	Hours	
Second Year	* Organismal Diversity Requirement	see note below	4	BIOL 303		3	
	CHEM 221		4	BIOL 299		1	
	Foreign Language General Education Requirement	University Requirement	3	CHEM 301	Optometry Prerequisite	3	
	Elective		2	Foreign Language	University Requirement	3	
				Elective		4	
		Subtotal 16			Subtotal 14		

	First Semester			Second Semester			TOTALS
	Course	Notes	Hours	Course	Notes	Hours	
Third Year	BIOL 312		4	BIOL Group Requirement	Group 1 or 2, see note below	4	
	BIOL 399		1	PHYS 202 or PHYS 212		4	
	PHYS 201 or PHYS 211		4	General Education Requirement		3	
	General Education Requirement		3	General Education Requirement		3	
	General Education Requirement		3	Elective		1	
		Subtotal 15			Subtotal 15		

	First Semester			Second Semester			TOTALS
	Course	Notes	Hours	Course	Notes	Hours	
Fourth Year	BIOL 421	Group 3	4	BIOL Group Requirement	Group 1 or 2, see note below - if took a course from Group 1 previously select one from Group 2; if took a course from Group 2 previously select one from Group 1	4	
	BIOL 202	Biology Elective 300 - 400 Level	4	BIOL 203		4	
	Biology Elective		4	BIOL 499		1	
	General Education Requirement		3	FALS 101	University Requirement	1	
				General Education Requirement		3	
		Subtotal 15			Subtotal 13		

Total Hours Required: 120

* Students may take either BIOL 213 or BIOL 214 to meet the organismal diversity requirement. Those who opt to fulfill this requirement in the second semester should take BIOL 303 in the first semester.

Biology Group Requirements

- Group 1: BIOL 308 or BIOL 313 or BIOL 401
- Group 2: BIOL 307 or BIOL 403 or BIOL 422
- Group 3: BIOL 306 or BIOL 311 or BIOL 415 or BIOL 421