

Major/Program	Biology (Genetics)
College	Science and Mathematics
Department	Biology
Contact	Jason Lee, Chair

Lander University
4-Year Registration Plan

	Fall Semester			Spring Semester			TOTALS	
	Course	Title(s)	Hours	Course	Title(s)	Hours		
First Year	BIOL 111	<i>Foundations in Ecology, Evolution, & Genetics</i>	4	BIOL 112	<i>Foundations in Cellular and Molecular Biology</i>	4		
	CHEM 111	<i>General Chemistry</i>	4	CHEM 112	<i>General Chemistry</i>	4		
	MATH 121, 123, or 141	<i>Mathematical Applications, Calculus and Its Applications, or Single Variable Calculus</i>	3	MATH 211	<i>Statistical Methods I</i>	3		
	ENGL 101	<i>Writing and Inquiry I</i>	3	ENGL 102	<i>Writing and Inquiry II</i>	3		
	LINK 101	<i>Leadership, Involvement, Networking, and Knowledge</i>	1	Elective		1		
	Subtotal 15			Subtotal 15			Yearly Totals 30	
Second Year	Fall Semester			Spring Semester				
		Course	Title(s)	Hours	Course	Title(s)	Hours	
		* Organismal Diversity Requirement or BIOL 303	<i>Botany or Evolution (see below)</i>	3-4	BIOL 299	<i>Second-year Seminar</i>	1	
		CHEM 221	<i>Organic Chemistry I</i>	4	* Organismal Diversity Requirement or BIOL 303	<i>Zoology or Evolution (see below)</i>	3-4	
		General Education Requirement	<i>Behavioral & Social Perspectives (General Education)</i>	3	General Education Requirement	<i>Founding Documents (General Education)</i>	3	
		Elective		3	Elective		3	
	Elective		1-2	Elective		3		
	Elective		1-2	Elective		1-2		
	Subtotal 15			Subtotal 15			Yearly Totals 30	
Third Year	Fall Semester			Spring Semester				
		Course	Title(s)	Hours	Course	Title(s)	Hours	
		BIOL 312	<i>Genetics</i>	4	BIOL 399	<i>Third-year Seminar</i>	1	
		General Education Requirement	<i>Humanities & Fine Arts (General Education)</i>	3	BIOL 403	<i>Molecular Biology</i>	4	
		General Education Requirement	<i>Behavioral & Social Perspectives (General Education)</i>	3	BIOL 413 (even Springs) or BIOL 498 (odd Springs)	<i>Advanced Genetics or Senior Seminar in Genetics</i>	1-4	
		BIOL Group Requirement	<i>See Below for Options</i>	4	General Education Requirement	<i>World Cultures (General Education)</i>	3	
		Elective		1	Elective		3	
	Elective		1	Elective (remove for even Springs)		0-3		
	Subtotal 15			Subtotal 15			Yearly Totals 30	
Fourth Year	Fall Semester			Spring Semester				
		Course	Title(s)	Hours	Course	Title(s)	Hours	
		BIOL 307	<i>Animal Development</i>	4	BIOL 412	<i>Genetics Research</i>	4	
		BIOL Group Requirement	<i>See Below for Options</i>	4	BIOL 413 (even Springs) or BIOL 498 (odd Springs)	<i>Advanced Genetics or Senior Seminar in Genetics</i>	1-4	
		Elective		3	BIOL 499	<i>Senior Seminar</i>	1	
		Elective		3	General Education Requirement	<i>Humanities & Fine Arts (General Education)</i>	3	
	Elective		1	Elective		3		
	Elective		1	Elective (remove for even Springs)		0-3		
	Subtotal 15			Subtotal 15			Yearly Totals 30	
Total Hours Required:							120	

* Organismal Diversity Requirement: students may take either BIOL 213 (Botany, fall) or BIOL 214 (Zoology, spring) to meet the requirement. Those who opt to fulfill this requirement in the spring semester should take BIOL 303 in the fall semester.

Biology Group Requirements

Group 1: BIOL 308 (Comparative Vertebrate Anatomy) or BIOL 313 (Plant Anatomy) or BIOL 401 (Cell Biology)

Group 2: BIOL 307 (Animal Development) or BIOL 403 (Molecular Biology) or BIOL 422 (Immunology)

Group 3: BIOL 306 (Ecology) or BIOL 311 (Animal Physiology) or BIOL 415 (Limnology) or BIOL 421 (General Microbiology)