

<b>Major/Program</b>	Biology (Genetics)
<b>College</b>	Science and Mathematics
<b>Department</b>	Biology
<b>Contact</b>	Dr. Jennifer Yates, Dean

2025-2026

*Lander University*  
4-Year Major Guide

Can be swapped between Second Year fall and spring  
Can be moved to any semester

	First Semester			Second Semester			TOTALS
	Course	Notes	Hours	Course	Notes	Hours	
First Year	BIOL 111		4	BIOL 112		4	
		<i>Scientific and Mathematical Reasoning (General Education)</i>			<i>General Education Elective (General Education)</i>		
	CHEM 111		4	CHEM 112		4	
		<i>Core Academic Skills (General Education)</i>			<i>Core Academic Skills (General Education)</i>		
	ENGL 101		3	ENGL 102		3	
	<i>Core Academic Skills (General Education)</i>			<i>Behavioral and Social Perspectives (General Education)</i>			
	MATH 121, MATH 123, or MATH 141		3	<b>General Education</b>		3	
	<i>Core Academic Skills (General Education)</i>			<i>Scientific and Mathematical Reasoning (General Education)</i>			
	LINK 101	<i>General Education</i>	1	MATH 211		3	
			<b>Subtotal</b>	<b>Subtotal</b>		<b>17</b>	<b>Yearly Totals</b>
			<b>15</b>				<b>32</b>
Second Year	<b>First Semester</b>			<b>Second Semester</b>			
	Course	Notes	Hours	Course	Notes	Hours	
	CHEM 221		4	BIOL 299		1	
	Elective		3	BIOL 303		3	
		<i>Behavioral and Social Perspectives (General Education)</i>					
	<b>General Education</b>		3	CHEM 301		3	
	<i>Organismal Diversity Requirement (see note below)</i>						
	* Program Requirement		4	Elective		3	
				Elective		3	
				HIST 111R, HIST 112R, or POLS 101R	<i>Founding Documents (General Education)</i>	3	
			<b>Subtotal</b>	<b>Subtotal</b>		<b>16</b>	<b>Yearly Totals</b>
			<b>14</b>				<b>30</b>
Third Year	<b>First Semester</b>			<b>Second Semester</b>			
	Course	Notes	Hours	Course	Notes	Hours	
	BIOL 312		4	BIOL 403		4	
	BIOL 399		1	Elective		4	
					<i>World Cultures (General Education)</i>		
	Elective		4	<b>General Education</b>		3	
			Genetics Group Requirement	<i>(see note below)</i>	4		
	Elective		3				
	<b>General Education</b>	<i>Humanities and Fine Arts (General Education)</i>	3				
			<b>Subtotal</b>	<b>Subtotal</b>		<b>15</b>	<b>Yearly Totals</b>
			<b>15</b>				<b>30</b>
Fourth Year	<b>First Semester</b>			<b>Second Semester</b>			
	Course	Notes	Hours	Course	Notes	Hours	
	BIOL 307		4	BIOL 412		4	
	BIOL 498		1	BIOL 413		4	
	Elective		4	BIOL 499		1	
		<i>Humanities and Fine Arts (General Education)</i>					
<b>General Education</b>		3	Elective		3		
	<i>(General Education)</i>						
	Genetics Group Requirement	<i>(see note below)</i>	4				
			<b>Subtotal</b>	<b>Subtotal</b>		<b>12</b>	<b>Yearly Totals</b>
			<b>16</b>				<b>28</b>

**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
- Group 3: BIOL 306 or BIOL 311 or BIOL 415 or BIOL 421