

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

2021-2022

## 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
<b>First Year</b>	<b>Course</b>	<b>Notes</b>	<b>Hours</b>
	BIOL 111		4
	CHEM 111	<i>Scientific and Mathematical Reasoning (General Education)</i>	4
	MATH 121, MATH 123, or MATH 141	<i>Core Academic Skills (General Education)</i>	3
	ENGL 101	<i>Core Academic Skills (General Education)</i>	3
	LINK 101	<i>General Education</i>	1
	<b>Subtotal</b>		15
		<b>Course</b>	<b>Notes</b>
		BIOL 112	4
		CHEM 112	<i>General Education Elective (General Education)</i>
		MATH 211	<i>Scientific and Mathematical Reasoning (General Education)</i>
		ENGL 102	<i>Core Academic Skills (General Education)</i>
		General Education	<i>Behavioral and Social Perspectives (General Education)</i>
		<b>Subtotal</b>	17
		<b>Yearly Totals</b>	32
<b>Second Year</b>	<b>Course</b>	<b>Notes</b>	<b>Hours</b>
	* Program Requirement	<i>Organismal Diversity Requirement (see note below)</i>	4
	CHEM 221		4
	Elective		3
	General Education	<i>Behavioral and Social Perspectives (General Education)</i>	3
		<b>Subtotal</b>	
		<b>Course</b>	<b>Notes</b>
		BIOL 303	3
		BIOL 299	1
		CHEM 301	3
		HIST 111 or POLS 101	<i>Founding Documents (General Education)</i>
		Elective	3
		Elective	3
		<b>Subtotal</b>	16
		<b>Yearly Totals</b>	30
<b>Third Year</b>	<b>Course</b>	<b>Notes</b>	<b>Hours</b>
	BIOL 312		4
	BIOL 399		1
	PHYS 201 or PHYS 211		4
	General Education	<i>Humanities and Fine Arts (General Education)</i>	3
	Elective		3
	<b>Subtotal</b>		15
		<b>Course</b>	<b>Notes</b>
		BIOL 403	4
		PHYS 202 or PHYS 212	4
		General Education	<i>World Cultures (General Education)</i>
		Elective	4
		<b>Subtotal</b>	15
		<b>Yearly Totals</b>	30
<b>Fourth Year</b>	<b>Course</b>	<b>Notes</b>	<b>Hours</b>
	BIOL 307		4
	Genetics Group Requirement	<i>(see note below)</i>	4
	BIOL 498		1
	General Education	<i>Humanities and Fine Arts (General Education)</i>	3
	Elective		4
	<b>Subtotal</b>		16
		<b>Course</b>	<b>Notes</b>
		Genetics Group Requirement	<i>(see note below)</i>
		BIOL 499	1
		BIOL 412	4
		FALS 101	<i>University Requirement</i>
		Elective	3
		<b>Subtotal</b>	12
		<b>Yearly Totals</b>	28

**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