

Major/Program	Biology
College	Science and Mathematics
Department	Biology
Contact	Dr. Dave Slimmer, Dean

2020-2021

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																																										
First Year	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course</th> <th>Notes</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>BIOL 111</td> <td></td> <td style="text-align: center;">4</td> </tr> <tr> <td>CHEM 111</td> <td><i>Scientific and Mathematical Reasoning (General Education)</i></td> <td style="text-align: center;">4</td> </tr> <tr> <td>MATH 121, MATH 123, or MATH 141</td> <td><i>Core Academic Skills (General Education)</i></td> <td style="text-align: center;">3</td> </tr> <tr> <td>ENGL 101</td> <td><i>Core Academic Skills (General Education)</i></td> <td style="text-align: center;">3</td> </tr> <tr> <td>LINK 101</td> <td><i>General Education</i></td> <td style="text-align: center;">1</td> </tr> <tr> <td colspan="2" style="text-align: right;">Subtotal</td> <td style="text-align: center;">15</td> </tr> </tbody> </table>	Course	Notes	Hours	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	Subtotal		15	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course</th> <th>Notes</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>BIOL 112</td> <td></td> <td style="text-align: center;">4</td> </tr> <tr> <td>CHEM 112</td> <td></td> <td style="text-align: center;">4</td> </tr> <tr> <td>MATH 211</td> <td><i>Scientific and Mathematical Reasoning (General Education)</i></td> <td style="text-align: center;">3</td> </tr> <tr> <td>ENGL 102</td> <td><i>Core Academic Skills (General Education)</i></td> <td style="text-align: center;">3</td> </tr> <tr> <td>General Education</td> <td><i>Behavioral and Social Perspectives (General Education)</i></td> <td style="text-align: center;">3</td> </tr> <tr> <td colspan="2" style="text-align: right;">Subtotal</td> <td style="text-align: center;">17</td> </tr> </tbody> </table>	Course	Notes	Hours	BIOL 112		4	CHEM 112		4	MATH 211	<i>Scientific and Mathematical Reasoning (General Education)</i>	3	ENGL 102	<i>Core Academic Skills (General Education)</i>	3	General Education	<i>Behavioral and Social Perspectives (General Education)</i>	3	Subtotal		17	<hr/> Yearly Totals 32
	Course	Notes	Hours																																										
	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																																											
Subtotal		15																																											
Course	Notes	Hours																																											
BIOL 112		4																																											
CHEM 112		4																																											
MATH 211	<i>Scientific and Mathematical Reasoning (General Education)</i>	3																																											
ENGL 102	<i>Core Academic Skills (General Education)</i>	3																																											
General Education	<i>Behavioral and Social Perspectives (General Education)</i>	3																																											
Subtotal		17																																											
Second Year	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course</th> <th>Notes</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>* Program Requirement</td> <td><i>Organismal Diversity (see note below)</i></td> <td style="text-align: center;">4</td> </tr> <tr> <td>CHEM 221</td> <td></td> <td style="text-align: center;">4</td> </tr> <tr> <td>Elective</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td>General Education</td> <td><i>Behavioral and Social Perspectives (General Education)</i></td> <td style="text-align: center;">3</td> </tr> <tr> <td>Elective</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td colspan="2" style="text-align: right;">Subtotal</td> <td style="text-align: center;">17</td> </tr> </tbody> </table>	Course	Notes	Hours	* Program Requirement	<i>Organismal Diversity (see note below)</i>	4	CHEM 221		4	Elective		3	General Education	<i>Behavioral and Social Perspectives (General Education)</i>	3	Elective		3	Subtotal		17	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course</th> <th>Notes</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>BIOL 303</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td>BIOL 299</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td>HIST 111 or POLS 101</td> <td><i>Founding Documents (General Education)</i></td> <td style="text-align: center;">3</td> </tr> <tr> <td>Elective</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td>Elective</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td colspan="2" style="text-align: right;">Subtotal</td> <td style="text-align: center;">13</td> </tr> </tbody> </table>	Course	Notes	Hours	BIOL 303		3	BIOL 299		1	HIST 111 or POLS 101	<i>Founding Documents (General Education)</i>	3	Elective		3	Elective		3	Subtotal		13	<hr/> Yearly Totals 30
	Course	Notes	Hours																																										
	* Program Requirement	<i>Organismal Diversity (see note below)</i>	4																																										
	CHEM 221		4																																										
	Elective		3																																										
	General Education	<i>Behavioral and Social Perspectives (General Education)</i>	3																																										
Elective		3																																											
Subtotal		17																																											
Course	Notes	Hours																																											
BIOL 303		3																																											
BIOL 299		1																																											
HIST 111 or POLS 101	<i>Founding Documents (General Education)</i>	3																																											
Elective		3																																											
Elective		3																																											
Subtotal		13																																											
Third Year	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course</th> <th>Notes</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>BIOL 312</td> <td></td> <td style="text-align: center;">4</td> </tr> <tr> <td>BIOL 399</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td>General Education</td> <td><i>Humanities and Fine Arts (General Education)</i></td> <td style="text-align: center;">3</td> </tr> <tr> <td>Elective</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td>Elective</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td colspan="2" style="text-align: right;">Subtotal</td> <td style="text-align: center;">14</td> </tr> </tbody> </table>	Course	Notes	Hours	BIOL 312		4	BIOL 399		1	General Education	<i>Humanities and Fine Arts (General Education)</i>	3	Elective		3	Elective		3	Subtotal		14	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course</th> <th>Notes</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>* Program Requirement</td> <td><i>Biology Group (see note below)</i></td> <td style="text-align: center;">4</td> </tr> <tr> <td>* Program Requirement</td> <td><i>Biology Group (see note below)</i></td> <td style="text-align: center;">4</td> </tr> <tr> <td>General Education</td> <td><i>Humanities and Fine Arts (General Education)</i></td> <td style="text-align: center;">3</td> </tr> <tr> <td>General Education</td> <td><i>World Cultures (General Education)</i></td> <td style="text-align: center;">3</td> </tr> <tr> <td>Elective</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td colspan="2" style="text-align: right;">Subtotal</td> <td style="text-align: center;">17</td> </tr> </tbody> </table>	Course	Notes	Hours	* Program Requirement	<i>Biology Group (see note below)</i>	4	* Program Requirement	<i>Biology Group (see note below)</i>	4	General Education	<i>Humanities and Fine Arts (General Education)</i>	3	General Education	<i>World Cultures (General Education)</i>	3	Elective		3	Subtotal		17	<hr/> Yearly Totals 31
	Course	Notes	Hours																																										
	BIOL 312		4																																										
	BIOL 399		1																																										
	General Education	<i>Humanities and Fine Arts (General Education)</i>	3																																										
	Elective		3																																										
Elective		3																																											
Subtotal		14																																											
Course	Notes	Hours																																											
* Program Requirement	<i>Biology Group (see note below)</i>	4																																											
* Program Requirement	<i>Biology Group (see note below)</i>	4																																											
General Education	<i>Humanities and Fine Arts (General Education)</i>	3																																											
General Education	<i>World Cultures (General Education)</i>	3																																											
Elective		3																																											
Subtotal		17																																											
Fourth Year	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course</th> <th>Notes</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>* Program Requirement</td> <td><i>Biology Group (see note below)</i></td> <td style="text-align: center;">4</td> </tr> <tr> <td>Biology Elective</td> <td><i>200-level or above</i></td> <td style="text-align: center;">4</td> </tr> <tr> <td>Elective</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td>Elective</td> <td></td> <td style="text-align: center;">4</td> </tr> <tr> <td colspan="2" style="text-align: right;">Subtotal</td> <td style="text-align: center;">15</td> </tr> </tbody> </table>	Course	Notes	Hours	* Program Requirement	<i>Biology Group (see note below)</i>	4	Biology Elective	<i>200-level or above</i>	4	Elective		3	Elective		4	Subtotal		15	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Course</th> <th>Notes</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>BIOL 499</td> <td></td> <td style="text-align: center;">1</td> </tr> <tr> <td>Biology Elective</td> <td><i>300-level or above</i></td> <td style="text-align: center;">4</td> </tr> <tr> <td>FALS 101</td> <td><i>University Requirement</i></td> <td style="text-align: center;">0</td> </tr> <tr> <td>Elective</td> <td></td> <td style="text-align: center;">4</td> </tr> <tr> <td>Elective</td> <td></td> <td style="text-align: center;">3</td> </tr> <tr> <td colspan="2" style="text-align: right;">Subtotal</td> <td style="text-align: center;">12</td> </tr> </tbody> </table>	Course	Notes	Hours	BIOL 499		1	Biology Elective	<i>300-level or above</i>	4	FALS 101	<i>University Requirement</i>	0	Elective		4	Elective		3	Subtotal		12	<hr/> Yearly Totals 27			
	Course	Notes	Hours																																										
	* Program Requirement	<i>Biology Group (see note below)</i>	4																																										
	Biology Elective	<i>200-level or above</i>	4																																										
	Elective		3																																										
	Elective		4																																										
Subtotal		15																																											
Course	Notes	Hours																																											
BIOL 499		1																																											
Biology Elective	<i>300-level or above</i>	4																																											
FALS 101	<i>University Requirement</i>	0																																											
Elective		4																																											
Elective		3																																											
Subtotal		12																																											

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