

<b>Major/Program</b>	Chemistry
<b>College</b>	Science and Mathematics
<b>Department</b>	Physical Science
<b>Contact</b>	Dave Slimmer, Dean

2019-2020

## Lander University

### 4-Year Major Guide

Can be moved to any semester

Can be moved to any semester							<b>TOTALS</b>
First Year	First Semester			Second Semester			
	Course	Notes	Hours	Course	Notes	Hours	
	CHEM 111		4	BIOL 112		4	
	CHEM 198		1	CHEM 112		4	
	MATH 123 or MATH 141	<i>Core Academic Skills (General Education)</i>	3	CHEM 199		1	
	ENGL 101	<i>Core Academic Skills (General Education)</i>	3	MATH 211	<i>Scientific and Mathematical Reasoning (General Education)</i>	3	
	LINK 101	<i>Core Academic Skills (General Education)</i>	1	ENGL 102	<i>Core Academic Skills (General Education)</i>	3	
	<b>General Education</b>	<i>Humanities and Fine Arts (General Education)</i>	3				
	<b>Subtotal</b>		<b>15</b>	<b>Subtotal</b>		<b>15</b>	<b>Yearly Totals</b>
							<b>30</b>
Second Year	First Semester			Second Semester			
	Course	Notes	Hours	Course	Notes	Hours	
	CHEM 221		4	CHEM 222		4	
	CHEM 330		5	CHEM 299		1	
	<b>Foreign Language</b>	<i>Core Academic Skills (General Education)</i>	3	CHEM 331		4	
	<b>General Education</b>	<i>Core Academic Skills (General Education)</i>	3	<b>General Education</b>	<i>Behavioral and Social Perspectives (General Education)</i>	3	
	<b>General Education</b>	<i>Core Academic Skills (General Education)</i>	3	<b>General Education</b>	<i>Humanities and Fine Arts (General Education)</i>	3	
	<b>Subtotal</b>		<b>15</b>	<b>Subtotal</b>		<b>15</b>	<b>Yearly Totals</b>
							<b>30</b>
	Third Year	First Semester			Second Semester		
Course		Notes	Hours	Course	Notes	Hours	
PHYS 201 or PHYS 211		<i>Scientific and Mathematical Reasoning (General Education)</i>	4	PHYS 202 or PHYS 212	<i>Elective (General Education)</i>	4	
Major Elective		<i>see list below</i>	4	CHEM 260 or above	<i>except for CHEM 381</i>	3	
General Education Elective		<i>General Education</i>	3	CHEM 381 or ES 390	<i>Elective (General Education)</i>	3	
Elective			3	Major Elective	<i>see list below</i>	3	
Elective			3	Elective		3	
<b>Subtotal</b>			<b>14</b>	<b>Subtotal</b>		<b>16</b>	<b>Yearly Totals</b>
							<b>30</b>
Fourth Year		First Semester			Second Semester		
	Course	Notes	Hours	Course	Notes	Hours	
	CHEM 401		4	CHEM 402		4	
	CHEM 260 or above or PHYS 314	<i>except for CHEM 381</i>	3	CHEM 341		4	
	CHEM 260 or above	<i>except for CHEM 381</i>	4	Elective		3	
	Elective		3	FALS	<i>Core Academic Skills (General Education)</i>	0	
	Elective		2	PSCI 499		3	
	<b>Subtotal</b>		<b>16</b>	<b>Subtotal</b>		<b>14</b>	<b>Yearly Totals</b>
							<b>30</b>

**Total Hours Required: 120**

Major Electives: Choose two of the following: BIOL 111 or higher; CHEM 260 or higher; CIS 101 or higher; MATH 141 or higher; 203 or PHYS 314; ES 300 or higher; GEOL 111 or higher

PHYS