

Major/Program	Chemistry Education, Secondary Certification
College	Science and Mathematics
Department	Physical ScienceS
Contact	Dr. Jennifer Yates, Dean
2025-2026	

Lander University 4 - Year Major Guide

	First Semester			Second Semester			TOTALS
First Year	Course	Notes	Hours	Course	Notes	Hours	
	CHEM 111		4	CHEM 112		4	
	ENGL 101	Core (General Education)	3	ENGL 102	Core (General Education)	3	
	HIST 111R, HIST 112R, or POLS 101R	Founding Documents of the United States (General Education)	3	General Education	Behavioral and Social Perspectives (General Education)	3	
	MATH 123	Core (General Education)	3	General Education	Humanities and Fine Arts (General Education)	3	
	LINK 101	(General Education)	1	MATH 211	Scientific and Mathematics Reasoning (General Education)	3	
	Subtotal		14	Subtotal		16	→ Yearly Totals 30
Second Year	First Semester			Second Semester			
	Course	Notes	Hours	Course	Notes	Hours	
	CHEM 221		4	BIOL 112		4	
	EDUC 204		3	EDUC 203		0.5	
	General Education	Behavioral and Social Perspectives (General Education)	3	Elective		3	
	General Education	World Cultures (General Education)	3	General Education	Humanities and Fine Arts (General Education)	3	
	PHYS 201	Scientific and Mathematics Reasoning (General Education)	4	PHYS 202		4	
Subtotal		17	Subtotal		14.5	→ Yearly Totals 31.5	
Third Year	First Semester			Second Semester			
	Course	Notes	Hours	Course	Notes	Hours	
	CHEM 420		3	CHEM 331		4	
	EDUC 223		3	EDUC 329		0.5	
	EDUC 250		3	EDUC 320		3	
	Major Program Concentration Requirements	see list below	3	Elective		3	
	SPED 223		3	Major Program Concentration Requirements	see list below	4	
Subtotal		15	Subtotal		14.5	→ Yearly Totals 29.5	
Pass all sections of Praxis Core. Apply for admission to the Professional Program; 2.75 GPA required for admission.			Must be admitted to the Professional Program to enroll in EDUC 329.				
Fourth Year	First Semester			Second Semester			
	Course	Notes	Hours	Course	Notes	Hours	
	CHEM 401		4	EDUC 461		11	
	EDUC 321		3	EDUC 499		1	
	EDUC 429		1				
	Elective		3				
	Elective		3				
PSCI 451		3					
Subtotal		17	Subtotal		12	→ Yearly Totals 29	
Take Praxis II and PLT.							
			Total Hours Required:			120	

Major Program Concentration Requirements: Choose two of the following: ASTR 101 or higher; BIOL 111 or higher; CHEM 222 or higher; CIS 130 or higher; ES 111 or higher; GEOL 111 or higher; MATH 141 or higher; or PHYS 203.