

Major/Program	Mathematics (Engineering)
College	Science and Mathematics
Department	Mathematics and Computing
Contact	Dr. Dave Slimmer, Dean

2022-2023

Lander University
4-Year Major Guide
Even Year Fall Entry

Can be moved to any semester

	First Semester			Second Semester			TOTALS
	Course	Notes	Hours	Course	Notes	Hours	
First Year	CHEM 111		4	CIS 130		4	
	ENGL 101	Core Academic Skills (General Education)	3	ENGL 102	Core Academic Skills (General Education)	3	
	HIST 101, HIST 102, or POLS 103	Behavioral and Social Perspectives (General Education)	3	MATH 134		3	
	MATH 141	Core Academic Skills (General Education)	4	MATH 142	Scientific and Mathematical Reasoning (General Education)	4	
	LINK 101	Leadership, Involvement, Networking and Knowledge (General Education)	1	PSYC 101, SOC1 101, or POLS 103	Behavioral and Social Perspectives (General Education)	3	
	Subtotal		15	Subtotal		17	
Second Year	First Semester			Second Semester			
	Course	Notes	Hours	Course	Notes	Hours	
	CIS 202		3	Elective		3	
	ES 314	World Cultures	3	ENGL 201, ENGL 202, ENGL 204, ENGL 205, ENGL 214, ENGL 221, or ENGL 241	Humanities and Fine Arts (General Education)	3	
	MATH 241		4	MATH 242		4	
	MATH 311		3	PHYS 212		4	
PHYS 211	Scientific and Mathematical Reasoning (General Education)	4	Subtotal		14	Yearly Totals 31	
Third Year	First Semester			Second Semester			
	Course	Notes	Hours	Course	Notes	Hours	
	CHEM 112 or GEOL 111	as required by engineering field	4	Elective		4	
	HUMA 285, PHIL 102, PHIL 103, MUSI 101, or THTR 201	Humanities and Fine Arts (General Education)	3	HIST 111 or POLS 101	Founding Documents (General Education)	3	
	MATH 308		3	Math Elective		3	
	MATH 431 or MATH 421		3	Math Elective		3	
Math Elective		3	MATH 499		1		
Subtotal		16	FALS 101		0	Yearly Totals 30	
Summer	Total Hours Required From Lander:						93
	Course	Notes	Hours				
	Clemson Course	Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.	3				
	Subtotal		3				3
			Course	Notes	Hours		
			Transferred from Clemson			24	
			Subtotal		24	Yearly Totals 24	

Total Hours Required: 120

Civil Engineering requires CHEM 111 and GEOL 111. Industrial, Mechanical and Computer Engineering require only CHEM 111. All other engineering programs require CHEM 111 and CHEM 112

Students in Mechanical Engineering strongly encouraged to take MATH 300:Numerical Analysis. Students in Electrical Engineering strongly encouraged to take MATH 431: Analysis I or MATH 432: Complex Analysis

Notes on elective Hours:

- CIS 230 is recommended for Electrical Engineering
- CIS 231 is recommended for Computer Engineering
- SPCH 101 is strongly encouraged for Ceramic and Materials, Electrical and Industrial Engineering programs

Coursework must include at least 30 hours earned in 300 or above level courses, of which 12 hours must be in the major