

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

Odd 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	Yearly Totals 32
	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			

	Course	Notes	Hours		Course	Notes	Hours		
Second Year	ES 314	World Cultures (General Education)	3		Elective		3	Yearly Totals 31	
	MATH 241		4		ENGL 201, ENGL 202, ENGL 204, ENGL 205, ENGL 214, ENGL 221, or ENGL 241	Humanities and Fine Arts (General Education)	3		
	MATH 308		3		MATH 242		4		
	Math Elective		3		PHYS 212		4		
	PHYS 211	Scientific and Mathematical Reasoning (General Education)	4		Subtotal				14
	Subtotal			17	Subtotal				14

	Course	Notes	Hours		Course	Notes	Hours	
Third Year	CHEM 112 or GEOL 111	as required by engineering field	4		Elective		4	Yearly Totals 30
	CIS 202		3		HIST 111 or POLS 101	Founding Documents (General Education)	3	
	HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201	Humanities and Fine Arts (General Education)	3		MATH 499		1	
	MATH 421 or MATH 431		3		Math Elective		3	
	MATH 311		3		Math Elective		3	
	Subtotal			16	FALS 101		0	
Subtotal			16	Subtotal			14	30

	Course	Notes	Hours		Course	Notes	Hours	
Summer					Total Hours Required From Lander: 93			
					Clemson Course	Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.	3	Yearly Totals 3
	Subtotal			3	Subtotal			
				Total Hours Required: 120				
				Transferred from Clemson		24	Yearly Totals 24	
Subtotal			24	Subtotal				24

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