

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

2021-2022

Lander University
4-Year Major Guide
Even Year Fall Entry

Can be moved to any semester

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