

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

2019-2020

Lander University
4-Year Major Guide
Even Year Fall Entry

Can be moved to any semester

Can be moved to any semester								TOTALS
		First Semester			Second Semester			
		Course	Notes	Hours	Course	Notes	Hours	
First Year	MATH 141	Core Academic Skills (General Education)	4	MATH 142	Scientific and Mathematical Reasoning (General Education)	4		
	CHEM 111		4	PSYC 101, SOC1 101, POLS 101, or POLS 103	Behavioral and Social Perspectives (General Education)	3		
	ENGL 101	Core Academic Skills (General Education)	3	ENGL 102	Core Academic Skills (General Education)	3		
	HIST 101, HIST 102, or POLS 103	General Education Elective	3	CIS 130		4		
	LINK 101	Core Academic Skills (General Education)	1	MATH 134		2		
		Subtotal	15			Subtotal	16	31
Second Year	MATH 241		4	MATH 242		4		
	PHYS 211	Scientific and Mathematical Reasoning (General Education)	4	PHYS 212		4		
	MATH 311		3	CHEM 381	Global Issues and Cultures (General Education Elective)	3		
	CIS 202		3	Foreign Language	Core Academic Skills (General Education)	3		
			Subtotal	17			Subtotal	14
Third Year	MATH 421 or MATH 431		3	MATH 499		1		
	MATH 308		3	Math Elective		6		
	Math Elective (MATH 300 or MATH 325)		3	ENGL 201, ENGL 202, ENGL 204, ENGL 205, ENGL 214, ENGL 221, or ENGL 241	Humanities and Fine Arts (General Education)	3		
	MUSI 101 or THTR 201	Humanities and Fine Arts (General Education)	3	ELECTIVES		3		
	CHEM 112 or GEOL 111 as required by engineering field		4	General Education Elective	General Education	2		
			Subtotal	16	FALS 101	Core Academic Skills (General Education)	0	
						Subtotal	15	31
				Total Hours Required From Lander:				93
Summer					Course	Notes	Hours	
					Major or Elective	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

* Some courses in the Global Issues and Cultures category may satisfy Clemson's Science and Technology in Society requirement
^ 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
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