

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

2020-2021

Lander University
4-Year Major Guide
Even Year Fall Entry

Can be moved to any semester

Can be moved to any semester			
	First Semester	Second Semester	TOTALS
First Year	Course	Notes	Hours
	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	
	Course	Notes	Hours
	CIS 130		4
	ENGL 102	<i>Core Academic Skills (General Education)</i>	3
	MATH 134		3
	MATH 142	<i>Scientific and Mathematical Reasoning (General Education)</i>	4
	PSYC 101, SOC1 101, or POLS 103	<i>Behavioral and Social Perspectives (General Education)</i>	3
	Subtotal		17
			Yearly Totals
			32
Second Year	Course	Notes	Hours
	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
	Course	Notes	Hours
	Elective		3
	ENGL 201, ENGL 202, ENGL 204, ENGL 205, ENGL 214, ENGL 221, or ENGL 241	<i>Humanities and Fine Arts (General Education)</i>	3
	MATH 242		4
	PHYS 212		4
	Subtotal		14
			Yearly Totals
			31
Third Year	Course	Notes	Hours
	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
	Course	Notes	Hours
	Elective		4
	HIST 111 or POLS 101	<i>Founding Documents (General Education)</i>	3
	Math Elective		3
	Math Elective		3
	MATH 499		1
	FALS 101		0
	Subtotal		14
			Yearly Totals
			30
Summer	Total Hours Required From Lander:		
	Course	Notes	Hours
	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
			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