	Major/Program	Mathematics (Enginee	erina)				.,
	College	Science and Mathematics			Lander University		
	Department	Mathematics and Com		- 			do
	•			-	4-Year Major Guide		
	Contact Dave Slimmer, Dean 2020-2021			Odd Year Fall Entry			
	Can be moved to any semes	stor					
	First Semester			9	econd Semester		TOTALS
							TOTALS
	Course	Notes	Hours	Course	Notes	Hours	
	CHEM 111	Core Academic Skills (General	4	CIS 130	Core Academic Skills (Genera	4	
	ENGL 101	Education)	3	ENGL 102	Education)	3	
First Year	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, 103	or POLS Behavioral and Social Perspectives (General Education)	3	
		(General Education)			Education)		Yearly Totals
		Subtotal	15		Subtota	al 17	→ 32
		Jubiolai	13		Subtota	al II	32
	First Semester			Second Semester			
						Цонко	
	Course	Notes World Cultures (General	Hours 3	Course Elective	Notes	Hours 3	
	ES 314	Education)	3	Elective		3	
Second Year	MATH 241		4	ENGL 201, ENGL 202, 204, ENGL 205, ENGL	214, (General Education)	3	
, ס	MATH 308		3	ENGL 221, or ENGL 2 MATH 242	41		
Ĕ	Math Elective		3	PHYS 212		4	
္ပ	Matri Elective	Scientific and Mathematical	4	PH13 212		*	
Ď	PHYS 211	Reasoning (General Education)	7				
U)							
							Yearly Totals
		Subtotal	17		Subtota	al 14	31
			17			al 14	31
	First	Subtotal Semester	17	s	Subtota Second Semester	al 14	31
	First Course		17 Hours	Course		al 14 Hours	31
		Semester Notes			second Semester		31
_	Course CHEM 112 or GEOL 111	Semester	Hours 4	Course Elective	Second Semester Notes	Hours 4	31
ear	Course	Semester Notes	Hours	Course	Second Semester Notes	Hours 4	31
rd Year	Course CHEM 112 or GEOL 111	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4	Course Elective	Second Semester Notes Founding Documents (General	Hours 4	31
hird Year	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3	Course Elective HIST 111 or POLS 101 MATH 499	Second Semester Notes Founding Documents (General	Hours 4 3	31
Third Year	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective	Second Semester Notes Founding Documents (General	Hours 4 3 1 1 3	31
Third Year	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective	Second Semester Notes Founding Documents (General	Hours 4 3 1 1 3 3 3	
Third Year	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective	Second Semester Notes Founding Documents (General Education)	Hours 4 3 1 3 3 0	Yearly Totals
Third Year	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective	Second Semester Notes Founding Documents (General	Hours 4 3 1 3 3 0	
Third Year	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective	Second Semester Notes Founding Documents (General Education) Subtota	Hours 4 3 1 3 3 0 al 14	Yearly Totals
Third Year	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective	Second Semester Notes Founding Documents (General Education) Subtotal Total Hours Require	Hours 4 3 1 3 3 0 al 14	Yearly Totals
Third Year	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective	Second Semester Notes Founding Documents (General Education) Subtota	Hours 4 3 1 3 3 0 al 14	Yearly Totals
Third Year	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101	Second Semester Notes Founding Documents (General Education) Subtotal Total Hours Require From Lander:	Hours 4 3 1 3 3 0 al 14	Yearly Totals
	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective	Second Semester Notes Founding Documents (General Education) Subtotal Total Hours Require	Hours 4 3 1 3 3 0 al 14	Yearly Totals
	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101	Second Semester Notes Founding Documents (General Education) Subtota Total Hours Require From Lander: Notes Clemson encourages students	Hours 4 3 1 3 3 0 all 14 Hours	Yearly Totals
	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101	Second Semester Notes Founding Documents (General Education) Subtota Total Hours Require From Lander: Notes Clemson encourages students to take one course at Clemson	Hours 4 3 1 3 3 0 0 Hours Hours	Yearly Totals
	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101	Second Semester Notes Founding Documents (General Education) Subtota Total Hours Require From Lander: Notes Clemson encourages students	Hours 4 3 1 3 3 0 0 Hours Hours	Yearly Totals
	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101	Founding Documents (General Education) Subtota Total Hours Requirements From Lander: Notes Clemson encourages students to take one course at Clemson in the summer prior to entering in the summer prior to entering	Hours 4 3 1 3 3 0 0 Hours Hours	Yearly Totals 30 93
	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101	Founding Documents (General Education) Subtota Total Hours Requirements (In the Substitution of the Subs	Hours 4 3 1 3 3 0 al 14 Hours 6 3 3 7	Yearly Totals 30 93 Yearly Totals
	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101 Course Clemson Course	Founding Documents (General Education) Subtota Total Hours Requirements (Total Hours Requirements) From Lander: Notes Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.	Hours 4 3 1 3 3 0 al 14 Hours 3 3 0 al 3	Yearly Totals 30 93
	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101 Course Clemson Course	Founding Documents (General Education) Subtota Total Hours Requirements from Lander: Notes Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.	Hours 4 3 1 3 3 0 al 14 Hours 3 Hours	Yearly Totals 30 93 Yearly Totals
	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101 Course Clemson Course	Founding Documents (General Education) Subtota Total Hours Requirements (Total Hours Requirements) From Lander: Notes Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.	Hours 4 3 1 3 3 0 al 14 Hours 3 3 0 al 3	Yearly Totals 30 93 Yearly Totals 3
	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101 Course Clemson Course	Subtota Total Hours Require From Lander: Notes Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program. Subtota Notes Subtota Subtota Notes Pered from Clemson	Hours 4 3 1 3 3 0 al 14 Hours 6 3 Hours 24	Yearly Totals 30 93 Yearly Totals 3 Yearly Totals
Summer Third Year	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101 Course Clemson Course	Founding Documents (General Education) Subtota Total Hours Requirements from Lander: Notes Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.	Hours 4 3 1 3 3 0 al 14 Hours 6 3 Hours 24	Yearly Totals 30 93 Yearly Totals 3
	COURSE CHEM 112 or GEOL 111 CIS 202 HUMA 285, PHIL 101, PHIL 103, MUSI 101, or THTR 201 MATH 421 or MATH 431	Semester Notes as required by engineering field Humanities and Fine Arts (General Education)	Hours 4 3 3 3 3 3 3	Course Elective HIST 111 or POLS 101 MATH 499 Math Elective Math Elective FALS 101 Course Clemson Course	Subtota Total Hours Require From Lander: Notes Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program. Subtota Notes Subtota Subtota Notes Pered from Clemson	Hours 4 3 1 3 3 0 1 Hours 3 3 Hours 24 al 24	Yearly Totals 30 93 Yearly Totals 3 Yearly Totals

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