Major/Program	Mathematics (Engineering)
College	Science and Mathematics
Department	Mathematics
Contact	Dr. Jennifer Yates, Dean
2025-2026	

Can be moved to any semester

First Semester					
Course	Notes	Hours			
CHEM 111		4			
ENGL 101	Core Academic Skills (General Education)	3			
HIST 101, HIST 102, HIST	Behavioral and Social Perspectives (General				
113, ANTH 101, PSYC 101	Education)	3			
MATH 141	Core Academic Skills (General Education)	4			
LINK 101	Leadership, Involvement, Networking and Knowledge (General Education)	1			

First Semester Course Notes Hours CIS 202 3 Second Year **MATH 241** 4 **MATH 311** 3 Math Elective or World Cultures World Cultures 3 Scientific and Mathematical **PHYS 211** Reasoning (General Education) 4 Subtotal 17

Eiret Somostor

First Semester						
Course	Notes	Hours				
Elective or Math Elective		4				
HUMA 285, 330,THTR 201, MUSI 101, 333, 377, 378, or PHIL 102, 103	Humanities and Fine Arts (General Education) {Clemson Non Literature Rqmnt]	3				
MATH 308		3				
MATH 431 or MATH 421		3				
Math Elective or Elective		3				
	Subtotal	16				

Subtotal 15

Lander University 4-Year Major Guide

Even Year Fall Entry

Secon	d Semester			TOTALS
Course	Notes	Hours	1	TOTALS
CIS 130	Notes	4		
	Core Academic Skills (General			
ENGL 102	Education)	3		
MATH 134		3		
	Scientific and Mathematical Reasoning (General			
MATH 142	Education)	4		
SOC1 101,SOCI 202,POLS	Behavioral and Social			
103,ECON 201,ECON 202	Perspectives (General Education)	3		
,,				Yearly Totals
	Subtotal	17		32
Casar	d Comentar			
	d Semester	Hours		
Course Elective or Math Elective	Notes	Hours 3		
	Humanities and Fine Arts	3		
ENGL 201, 202, 204, 205, ENGL 221, 241, or 251	(General Education) {Clemson Literature Rgmnt]	3		
MATH 242		4		
PHYS 212		4		
				Manula Tatala
	Subtotal	14		Yearly Totals 31
	Custola			•
-				
Secon	d Semester			
Course	d Semester Notes	Hours		
Course CHEM 112, GEOL 111, or	Notes as required by engineering			
Course CHEM 112, GEOL 111, or BIOL 101	Notes	Hours 4		
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R,	Notes as required by engineering field			
Course CHEM 112, GEOL 111, or BIOL 101	Notes as required by engineering			
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R	Notes as required by engineering field Founding Documents (General	4 3		
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective	Notes as required by engineering field Founding Documents (General	4		
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World	Notes as required by engineering field Founding Documents (General Education)	4 3 3		
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective	Notes as required by engineering field Founding Documents (General	4 3		
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures	Notes as required by engineering field Founding Documents (General Education)	4 3 3 3		Yearly Totals
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures	Notes as required by engineering field Founding Documents (General Education)	4 3 3 3	—	Yearly Totals 30
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures MATH 499	Notes as required by engineering field Founding Documents (General Education)	4 3 3 1 14	-	
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures MATH 499	Notes as required by engineering field Founding Documents (General Education) World Cultures Subtotal	4 3 3 1 14	→	30
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures MATH 499 Total He	Notes as required by engineering field Founding Documents (General Education) World Cultures Subtotal Durs Required From L	4 3 3 1 14 ander:	→	30
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures MATH 499 Total He	Notes as required by engineering field Founding Documents (General Education) World Cultures Subtotal Durs Required From L Notes Clemson encourages students to take one course at Clemson	4 3 3 1 14 ander:	→	30
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures MATH 499 Total He Course	Notes as required by engineering field Founding Documents (General Education) World Cultures Subtotal Durs Required From L Notes Clemson encourages students	4 3 3 1 14 <i>ander:</i> Hours		30
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures MATH 499 Total He Course	Notes as required by engineering field Founding Documents (General Education) World Cultures Subtotal Ours Required From L Notes Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.	4 3 3 1 14 <i>ander:</i> Hours	→	30 93
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures MATH 499 Total He Course	Notes as required by engineering field Founding Documents (General Education) World Cultures Subtotal Durs Required From L Notes Clemson encourages students to take one course at Clemson in the summer prior to entering	4 3 3 1 14 ander: Hours 3	→	30
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures MATH 499 Total He Course Clemson Course	Notes as required by engineering field Founding Documents (General Education) World Cultures World Cultures Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program. Subtotal Notes	4 3 3 1 14 ander: Hours 3 3	_ -	30 93
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures MATH 499 Total He Course Clemson Course	Notes as required by engineering field Founding Documents (General Education) World Cultures World Cultures Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program. Subtotal Notes	4 3 3 1 14 <i>ander:</i> 3 3 3 Hours	_	30 93
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures MATH 499 Total He Course Clemson Course	Notes as required by engineering field Founding Documents (General Education) World Cultures World Cultures Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program. Subtotal Notes	4 3 3 1 14 <i>ander:</i> 3 3 3 Hours	_ _	30 93 3
Course CHEM 112, GEOL 111, or BIOL 101 HIST 111R, HIST 112R, or POLS 101R Math Elective or Elective Math Elective or World Cultures MATH 499 Total He Course Clemson Course	Notes as required by engineering field Founding Documents (General Education) World Cultures Use Subtotal Dours Required From L Notes Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program. Subtotal Notes om Clemson	4 3 3 1 14 ander: Hours 3 3 Hours 24 24		30 93 3 Yearly Totals

Civil Engineering requires GEOL 111. Electrical requires CHEM 112. Environmental requires CHEM 112, GEOL 111, and BIOL 101. Industrial may use any one of the three to complete lab science requirements at Clemson.

Students in Mechanical Engineering strongly encouraged to take MATH 300:Numerical Analysis. Students in Electrical Engineering strongly encouraged to take MATH 325 Discrete Mathematics and either MATH 431 Analysis I (even fall) or MATH 432 Complex Analysis (odd spring)

Notes on elective Hours:

Third Year

Summer

CIS 230 is required in the Electrical Engineering program.

CIS 231 (every fall) is recommended for Computer Engineering

SPCH 101 is strongly encouraged for Civil, Electrical and Industrial Engineering programs as it fulfills Clemson's Oral Communication requirement.

WRIT 450 Technical Writing will fulfill a Clemson requirement for Civil, Computer, Electrical, and Mechanical engineering programs.