

Major/Program	Mathematics (Engineering)
College	Science and Mathematics
Department	Mathematics
Contact	Dr. Jennifer Yates, Dean
2026-2027	

Lander University
4-Year Major Guide
Even Year Fall Entry

Can be moved to any semester

	First Semester	Second Semester	TOTALS
	Course	Course	
First Year	CHEM 111	CIS 130	
	<i>Notes</i>	<i>Notes</i>	
	ENGL 101	ENGL 102	
	HIST 101, HIST 102, HIST 113, ANTH 101, PSYC 101	MATH 134	
	MATH 141	MATH 142	
	LINK 101	SOC1 101,SOCI 202,POLS 103,ECON 201,ECON 202	
	Subtotal 15	Subtotal 17	Yearly Totals 32
Second Year	First Semester	Second Semester	
	CIS 202	Elective or Math Elective	
	MATH 241	ENGL 201, 202, 204, 205, ENGL 221, 241, or 251	
	MATH 311	MATH 242	
	Math Elective or World Cultures	PHYS 212	
	PHYS 211		
	Subtotal 17	Subtotal 14	Yearly Totals 31
Third Year	First Semester	Second Semester	
	Elective or Math Elective	CHEM 112, GEOL 111, or BIOL 101	
	HUMA 285, 330, THTR 201, MUSI 101, 333, 377, 378, or PHIL 102, 103	HIST 111R, HIST 112R, or POLS 101R	
	MATH 308	Math Elective or Elective	
	MATH 431 or MATH 421	Math Elective or World Cultures	
	Math Elective or Elective	MATH 499	
	Subtotal 16	Subtotal 14	Yearly Totals 30
Summer	Total Hours Required From Lander: 93		
	Clemson Course		
	Subtotal 3		3
	Transferred from Clemson		
	Subtotal 24		Yearly Totals 24
	Total Hours Required: 120		120

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:

- 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.