

<b>Major/Program</b>	Mathematics (Engineering)
<b>College</b>	Science and Mathematics
<b>Department</b>	Mathematics and Computing
<b>Contact</b>	Dr. Jennifer Yates, Interim Dean

2024-2025

## Lander University

### 4-Year Major Guide

Odd Year Fall Entry

Can be moved to any semester

	First Semester			Second Semester			TOTALS
	Course	Notes	Hours	Course	Notes	Hours	
First Year	CHEM 111		4	CIS 130		4	
	ENGL 101	Core Academic Skills (General Education)	3	ENGL 102	Core Academic Skills (General Education)	3	
	HIST 101, HIST 102, HIST 113, ANTH 101, PSYC 101	Behavioral and Social Perspectives (General Education)	3	MATH 134		4	
	MATH 141	Core Academic Skills (General Education)	4	MATH 142	Scientific and Mathematical Reasoning (General Education)	3	
	LINK 101	Leadership, Involvement, Networking and Knowledge (General Education)	1	SOC1 101, SOCI 202, POLS 103, ECON 201, ECON 202	Behavioral and Social Perspectives (General Education)	3	
	<b>Subtotal</b>			<b>15</b>	<b>Subtotal</b>		
							<b>Yearly Totals</b>
							<b>32</b>

	First Semester			Second Semester			TOTALS
	Course	Notes	Hours	Course	Notes	Hours	
Second Year	Elective or Math elective		3	CHEM 112, GEOL 111, or BIOL 101	as required by engineering field	3	
	MATH 241		4	ENGL 201, 202, 204, 205, ENGL 221, 241, or 251	Humanities and Fine Arts (General Education) (Clemson Literature Rqmnt)	3	
	MATH 308		3	MATH 242		4	
	Math Elective or World Cultures	World Cultures (General Education)	3	PHYS 212		4	
	PHYS 211	Scientific and Mathematical Reasoning (General Education)	4				
	<b>Subtotal</b>			<b>17</b>	<b>Subtotal</b>		
							<b>Yearly Totals</b>
							<b>31</b>

	First Semester			Second Semester			TOTALS
	Course	Notes	Hours	Course	Notes	Hours	
Third Year	CIS 202		3	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	HIST 111R, HIST 112R, or POLS 101R	Founding Documents (General Education)	3	
	MATH 421 or MATH 431		3	MATH 499		1	
	MATH 311		3	Math Elective or World Cultures	World Cultures (General Education)	3	
	Math Elective or Elective		4	Math Elective or Elective		3	
	<b>Subtotal</b>			<b>16</b>	<b>Subtotal</b>		
							<b>Yearly Totals</b>
							<b>30</b>

	First Semester			Second Semester			TOTALS
	Course	Notes	Hours	Course	Notes	Hours	
Summer							
							<b>Yearly Totals</b>
							<b>3</b>

  

Course	Notes	Hours					
Clemson Course	Clemson encourages students to take one course at Clemson in the summer prior to entering the engineering program.	3					
<b>Subtotal</b>		<b>3</b>					
							<b>Yearly Totals</b>
							<b>3</b>

  

Course	Notes	Hours					
<b>Subtotal</b>		<b>24</b>					
							<b>Yearly Totals</b>
							<b>24</b>

  

<b>Total Hours Required From Lander:</b>	<b>93</b>
--	-----------

  

<b>Total Hours Required:</b>	<b>120</b>
------------------------------	------------

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.