

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

2019-2020

**Lander University**  
**4-Year Major Guide**  
*Odd Year Fall Entry*

Can be moved to any semester

		First Semester	Second Semester	TOTALS			
<b>First Year</b>	<b>Course</b>	<b>Notes</b>	<b>Hours</b>	<b>Course</b>	<b>Notes</b>	<b>Hours</b>	
	MATH 141	Core Academic Skills (General Education)	4	MATH 142	Scientific and Mathematical Reasoning (General Education)	4	
	CHEM 111		4	PSYC 101, SOC1 101, POLS 101, or POLS 103	Behavioral and Social Perspectives (General Education)	3	
	ENGL 101	Core Academic Skills (General Education)	3	ENGL 102	Core Academic Skills (General Education)	3	
	HIST 101, HIST 102, or POLS 103	General Education Elective	3	CIS 130		4	
	LINK 101	Core Academic Skills (General Education)	1	MATH 134		2	
	<b>Subtotal</b>		<b>15</b>	<b>Subtotal</b>		<b>16</b>	→ <b>31</b>
<b>Second Year</b>	<b>Course</b>	<b>Notes</b>	<b>Hours</b>	<b>Course</b>	<b>Notes</b>	<b>Hours</b>	
	MATH 241		4	MATH 242		4	
	PHYS 211	Scientific and Mathematical Reasoning (General Education)	4	PHYS 212		4	
	MATH 308		3	CHEM 381	Global Issues and Cultures (General Education Elective)	3	
	Math Elective (MATH 300 or MATH 325)		3	PSYC 101, SOC1 101, POLS 101, or POLS 103	Behavioral and Social Perspectives (General Education)	3	
	Foreign Language	Core Academic Skills (General Education)	3	<b>Subtotal</b>		<b>14</b>	→ <b>31</b>
	<b>Subtotal</b>		<b>17</b>				
<b>Third Year</b>	<b>Course</b>	<b>Notes</b>	<b>Hours</b>	<b>Course</b>	<b>Notes</b>	<b>Hours</b>	
	MATH 421 or MATH 431		3	MATH 499		1	
	MATH 311		3	Math Elective		6	
	CIS 202		3	ENGL 201, ENGL 202, ENGL 204, ENGL 205, ENGL 214, ENGL 221, or ENGL 241	Humanities and Fine Arts (General Education)	3	
	MUSI 101 or THTR 201	Humanities and Fine Arts (General Education)	3	ELECTIVES		3	
CHEM 112 or GEOL 111 as required by engineering field		4	General Education Elective	General Education	2		
	<b>Subtotal</b>		<b>16</b>	FALS 101	Core Academic Skills (General Education)	0	
				<b>Subtotal</b>		<b>15</b>	→ <b>31</b>
<b>Summer</b>				<b>Total Hours Required From Lander:</b>			<b>93</b>
	<b>Course</b>	<b>Notes</b>	<b>Hours</b>				
	Math Elective or Elective	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>
			<b>Course</b>	<b>Notes</b>	<b>Hours</b>		
			Transferred from Clemson		24	<b>Yearly Totals</b>	
			<b>Subtotal</b>		<b>24</b>	<b>24</b>	
			<b>Total Hours Required:</b>			<b>120</b>	

\* Some courses in the Global Issues and Cultures category may satisfy Clemson's Science and Technology in Society requirement  
^ 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  
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