

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

2018-2019

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

|  | First Semester  |   |                          | Second Semester   |  |  | TOTALS               |           |
|--|---|---|--------------------------|---|--|--|----------------------|-----------|
|  | Course  | Notes   | Hours                    | Course  | Notes  | Hours                                    |                      |           |
| <b>First Year</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>Second Year</b>                       | MATH 241  | Scientific and Mathematical Reasoning (General Education) | 4                        | MATH 242  |  | 4  |                      |           |
|  | PHYS 211  |   | 4                        | PHYS 212  |  | 4  |                      |           |
|  | MATH 311  |   | 3                        | CHEM 381  | Global Issues and Cultures (General Education Elective)  | 3  |                      |           |
|  | CIS 202   |   | 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>17</b>   | <b>Subtotal</b>  |  |                      | <b>14</b> |
| <b>Third Year</b>                        | MATH 421 or MATH 431                                  |   | 3                        | MATH 499  |  | 1  |                      |           |
|  | MATH 308  |   | 3                        | Math Elective   |  | 6  |                      |           |
|  | Math Elective (MATH 300 or MATH 325)                  |   | 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>Total Hours Required From Lander:</b> |   |   |                          |   |  |  | <b>93</b>            |           |
| <b>Summer</b>                            |   |   |                          | <b>Course</b>   | <b>Notes</b>   | <b>Hours</b>                             |                      |           |
|  |   |   |                          | Major 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>3</b>  |
|  |   |   | <b>Course</b>            | <b>Notes</b>  | <b>Hours</b>   |  |                      |           |
|  |   |   | Transferred from Clemson |   |  | 24                                       |                      |           |
|  |   |   | <b>Subtotal</b>          |   |  | <b>24</b>                                | <b>Yearly Totals</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