

|                      |                                  |
|----------------------|----------------------------------|
| <b>Major/Program</b> | Chemistry                        |
| <b>College</b>       | Science and Mathematics          |
| <b>Department</b>    | Physical Science                 |
| <b>Contact</b>       | Dr. Jennifer Yates, Interim Dean |

2023-2024

## Lander University

### 4-Year Major Guide

|                         | <b>First Semester</b>                    | <b>Second Semester</b>                                | <b>TOTALS</b> |
|-------------------------|--|---|---------------|
| <b>First Year</b>       | <b>Course</b>                            | <b>Notes</b>  | <b>Hours</b>  |
|                         | CHEM 111                                 |   | 4             |
|                         | ENGL 101                                 | <i>Core Academic Skills (General Education)</i>       | 3             |
|                         | General Education                        | <i>Humanities and Fine Arts (General Education)</i>   | 3             |
|                         | MATH 123 or<br>MATH 141                  | <i>Core Academic Skills (General Education)</i>       | 3             |
|                         | LINK 101                                 | <i>(General Education)</i>                            | 1             |
|                         | <b>Subtotal</b>                          |   | <b>14</b>     |
| <b>Second Year</b>      | <b>Course</b>                            | <b>Notes</b>  | <b>Hours</b>  |
|                         | CHEM 221                                 |   | 4             |
|                         | CHEM 330                                 |   | 5             |
|                         | General Education                        | <i>Behavioral and Social (General Education)</i>      | 3             |
|                         | HIST 111R,<br>HIST 112R, or<br>POLS 101R | <i>Founding Documents (General Education)</i>         | 3             |
|                         | <b>Subtotal</b>                          |   | <b>15</b>     |
|                         | <b>Third Year</b>                        | <b>Course</b>   | <b>Notes</b>  |
| General Education       |  | <i>World Cultures (General Education)</i>             | 3             |
| Major Elective          |  | <i>see list below</i>                                 | 4             |
| Major Elective          |  | <i>see list below</i>                                 | 3             |
| PHYS 201 or<br>PHYS 211 |  | <i>Scientific and Mathematics (General Education)</i> | 4             |
| <b>Subtotal</b>         |  |   | <b>14</b>     |
| <b>Fourth Year</b>      |  | <b>Course</b>   | <b>Notes</b>  |
|                         | CHEM 401                                 |   | 4             |
|                         | CHEM 260 or above                        | <i>except for CHEM 381</i>                            | 3             |
|                         | CHEM 260 or above                        | <i>except for CHEM 381</i>                            | 3             |
|                         | Elective                                 |   | 3             |
|                         | Elective                                 |   | 3             |
|                         | <b>Subtotal</b>                          |   | <b>16</b>     |
| <b>First Year</b>       | <b>Course</b>                            | <b>Notes</b>  | <b>Hours</b>  |
|                         | BIOL 112                                 |   | 4             |
|                         | CHEM 112                                 |   | 4             |
|                         | CHEM 197                                 |   | 1             |
|                         | CHEM 198                                 |   | 1             |
|                         | ENGL 102                                 | <i>Core Academic Skills (General Education)</i>       | 3             |
|                         | MATH 211                                 | <i>Scientific and Mathematics (General Education)</i> | 3             |
| <b>Subtotal</b>         |  | <b>16</b>   |               |
| <b>Second Year</b>      | <b>Course</b>                            | <b>Notes</b>  | <b>Hours</b>  |
|                         | CHEM 222                                 |   | 4             |
|                         | CHEM 199                                 |   | 1             |
|                         | CHEM 331                                 |   | 4             |
|                         | General Education                        | <i>Humanities and Fine Arts (General Education)</i>   | 3             |
|                         | General Education                        | <i>Behavioral and Social (General Education)</i>      | 3             |
|                         | <b>Subtotal</b>                          |   | <b>15</b>     |
| <b>Third Year</b>       | <b>Course</b>                            | <b>Notes</b>  | <b>Hours</b>  |
|                         | CHEM 260 or above                        | <i>except for CHEM 381</i>                            | 3             |
|                         | Elective                                 |   | 3             |
|                         | Elective                                 |   | 3             |
|                         | Major Elective                           | <i>see list below</i>                                 | 3             |
|                         | PHYS 202 or<br>PHYS 212                  |   | 4             |
|                         | <b>Subtotal</b>                          |   | <b>16</b>     |
| <b>Fourth Year</b>      | <b>Course</b>                            | <b>Notes</b>  | <b>Hours</b>  |
|                         | CHEM 402                                 |   | 4             |
|                         | CHEM 341                                 |   | 4             |
|                         | Elective                                 |   | 3             |
|                         | PSCI 499                                 |   | 3             |
|                         | * FALS 101                               | <i>University Requirement</i>                         | 0             |
|                         | <b>Subtotal</b>                          |   | <b>14</b>     |
| <b>Yearly Totals</b>    |  |   | <b>30</b>     |
| <b>Yearly Totals</b>    |  |   | <b>30</b>     |
| <b>Yearly Totals</b>    |  |   | <b>30</b>     |
| <b>Yearly Totals</b>    |  |   | <b>30</b>     |

\* FALS Requirement Temporarily Suspended

**Total Hours Required: 120**

**Major Electives:** Choose three of the following: ASTR 101 or higher; BIOL 111 or higher; CHEM 260 or higher; CIS 130 or higher; ES 111 or higher; GEOL 111 or higher; MATH 141 or higher; PHYS 203; PHYS 314; PSCI 451.