## 2021 - 2022 Old Dominion University Catalog

### Bachelor of Science in Biochemistry -Teaching Licensure (w/ VCCS Equivalencies)

Sample four year curriculum with a suggested ordering of courses. **Students may re-order as needed.**

* Indicates not automatically waived with transferrable associates degree. C or better required for transfer. Courses in **green** are waived by the completion of an Associate degree (Not eligible for Applied Associate degrees). Associate in Science recommended for ease of transfer.

### YEAR 1 - FRESHMAN (31 CREDITS)

<table>
<thead>
<tr>
<th>Fall Semester (15 credits)</th>
<th>VCCS Equivalency</th>
<th>Spring Semester (16 credits)</th>
<th>VCCS Equivalency</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education and Major Coursework:</td>
<td>CHEM 121N/122N (4 credits)</td>
<td>MATH 163</td>
<td>CHEM 111*</td>
</tr>
<tr>
<td>General Education and Major Coursework:</td>
<td>CHEM 123N/124N (4 credits)</td>
<td>MATH 162, 164 or 167*</td>
<td>MATH 211 (4 credits)</td>
</tr>
<tr>
<td>Major Coursework:</td>
<td>BIOL 121N &amp; 122N (4 credits)</td>
<td>BIO 101*</td>
<td>BIOL 123N &amp; 124N (4 credits)</td>
</tr>
<tr>
<td>Professional Education Coursework:</td>
<td>ENGL 110C</td>
<td>ENG 111*</td>
<td>ENGL 211C, 221C, or 231C</td>
</tr>
<tr>
<td>STEM 101 (1 credit)</td>
<td>STEM 102 (1 credit)</td>
<td>STEM 102 (1 credit)</td>
<td>English 110C or 211C</td>
</tr>
</tbody>
</table>

### YEAR 2 - SOPHOMORE (35 CREDITS)

<table>
<thead>
<tr>
<th>Fall Semester (15 credits)</th>
<th>VCCS Equivalency</th>
<th>Spring Semester (14 credits)</th>
<th>VCCS Equivalency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Coursework:</td>
<td>CHEM 211-CHEM 212 (5 credits)</td>
<td>MTH 174, 264, or 274*</td>
<td>CHEM 242 &amp; 244 or 246*</td>
</tr>
<tr>
<td>Major Coursework:</td>
<td>MATH 212 (4 credits)</td>
<td>STEM 202</td>
<td>STEM 202</td>
</tr>
<tr>
<td>Professional Education Coursework:</td>
<td>COMM 101R</td>
<td>CST 100, 105 or 110*</td>
<td>General Education Coursework:</td>
</tr>
<tr>
<td>STEM 201</td>
<td>STEM 202</td>
<td><strong>Interpreting the Past</strong></td>
<td>Transfer Guide</td>
</tr>
<tr>
<td><strong>Human Creativity</strong></td>
<td><strong>Transfer Guide</strong></td>
<td><strong>Human Creativity</strong></td>
<td><strong>Transfer Guide</strong></td>
</tr>
</tbody>
</table>

### SUMMER SEMESTER (6 credits)

<table>
<thead>
<tr>
<th>General Education Coursework:</th>
<th>VCCS Equivalency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interpreting the Past</td>
<td>Transfer Guide</td>
</tr>
<tr>
<td>Human Creativity</td>
<td>Transfer Guide</td>
</tr>
</tbody>
</table>

### YEAR 3 - JUNIOR (32 CREDITS)

<table>
<thead>
<tr>
<th>Fall Semester (15 credits)</th>
<th>VCCS Equivalency</th>
<th>Spring Semester (17 credits)</th>
<th>VCCS Equivalency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Coursework:</td>
<td>PHYS 231N (4 credits)</td>
<td>PHY 231 or 241*</td>
<td>PHYS 232 or 242*</td>
</tr>
<tr>
<td>Major Coursework:</td>
<td>CHEM 321 and CHEM 322 (5 credits)</td>
<td>CHEM 441</td>
<td>CHEM 441</td>
</tr>
<tr>
<td>Professional Education Coursework:</td>
<td>BOIL 293</td>
<td>CHEM 442W (4 credits)</td>
<td>Human Behavior: GEOG 101S</td>
</tr>
<tr>
<td>STEM 401</td>
<td>STEM 402</td>
<td>General Education Coursework:</td>
<td><strong>Transfer Guide</strong></td>
</tr>
</tbody>
</table>

### YEAR 4 - SENIOR (31 CREDITS)

<table>
<thead>
<tr>
<th>Fall Semester (15 credits)</th>
<th>VCCS Equivalency</th>
<th>Spring Semester (16 credits)</th>
<th>VCCS Equivalency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Coursework:</td>
<td>CHEM 331</td>
<td>CHEM 485 (1 credit)</td>
<td>CHEM 333</td>
</tr>
<tr>
<td>Major Coursework:</td>
<td>CHEM 443</td>
<td>Professional Education Coursework:</td>
<td>STEM 485 (9 credits)</td>
</tr>
<tr>
<td>General Education Coursework:</td>
<td>CHEM 468</td>
<td>General Education Coursework:</td>
<td><strong>Transfer Guide</strong></td>
</tr>
<tr>
<td>Impact of Technology</td>
<td><strong>Transfer Guide</strong></td>
<td><strong>Impact of Technology</strong></td>
<td>Literature</td>
</tr>
</tbody>
</table>

### Note:

This 4-year plan does not include 6 credits in Language and Culture, but this requirement may be waived; see ODU catalog.

**Requirements for graduation include a minimum cumulative grade point average of 2.75 GPA, in the major area, and in the professional education core, with no grade less than a C in the major and C- in the professional education core; successful completion of the Teacher Candidate Internship and a minimum of 135 credit hours, which must include both a minimum of 34 credit hours overall and 12 credit hours in upper-level courses in the major program from Old Dominion University, completion of ENGL 110C, ENGL 211C or 221C or 231C, and a writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.**

This four year plan is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.