# Bachelor of Science in Biology-Secondary Education Concentration (w/ VCCS Equivalencies)

Sample four year curriculum with a suggested ordering of courses. Students may re-order as needed. Courses in ** green are waived by the completion of an Associate degree (Not eligible for Applied Associate degrees).

## 2018 - 2019 Old Dominion University Catalog

<table>
<thead>
<tr>
<th>YEAR 1 - FRESHMAN (31 CREDITS)</th>
<th>YEAR 2 - SOPHOMORE (32 CREDITS)</th>
<th>YEAR 3 - JUNIOR (32 CREDITS)</th>
<th>YEAR 4 - SENIOR (32 CREDITS)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL SEMESTER (14 credits)</strong></td>
<td><strong>SPRING SEMESTER (17 credits)</strong></td>
<td><strong>FALL SEMESTER (16 credits)</strong></td>
<td><strong>SPRING SEMESTER (16 credits)</strong></td>
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<tr>
<td>General Education Coursework:</td>
<td>VCCS Equivalency:</td>
<td>General Education Coursework:</td>
<td>VCCS Equivalency:</td>
</tr>
<tr>
<td>ENGL 110C*</td>
<td>ENG 111</td>
<td>ENGL 231C*</td>
<td>ENG 115 or 131</td>
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<tr>
<td>Oral Communication</td>
<td>Transfer Guide</td>
<td>Human Creativity</td>
<td>Transfer Guide</td>
</tr>
<tr>
<td>MATH 162M*</td>
<td>Transfer Guide</td>
<td>Interpreting the Past</td>
<td>Transfer Guide</td>
</tr>
<tr>
<td>BIOL 121N &amp; 122N*</td>
<td>MTH 161 or 163</td>
<td>BIOL 123N &amp; 124N*</td>
<td>BIO 102</td>
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<tr>
<td>Professional Education Coursework:</td>
<td>STEM 101 (1 credit)</td>
<td>Professional Education Coursework:</td>
<td>STEM 102 (1 credit)</td>
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<td><strong>FALL SEMESTER (15 credits)</strong></td>
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<td><strong>SPRING SEMESTER (17 credits)</strong></td>
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<td>VCCS Equivalency:</td>
<td>General Education Coursework:</td>
<td>VCCS Equivalency:</td>
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<tr>
<td>Information Literacy and Research: CS 121G required or STEM 251G required</td>
<td>Transfer Guide</td>
<td>Major Coursework:</td>
<td>Transfer Guide</td>
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<td>Major Coursework:</td>
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<tr>
<td>STAT 130M*</td>
<td>MTH 146, 157, 240, 241, 242 or 245</td>
<td>BIOL 292</td>
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<td>BIOL 291</td>
<td>CHM 111</td>
<td>CHEM 123N &amp; 124N*</td>
<td>CHM 112</td>
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<td>CHEM 121N &amp; 122N (4 credits)*</td>
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<td>General Education Coursework:</td>
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<td>Major Coursework:</td>
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<tr>
<td>OEAS 110N or OEAS 111N** (4 credits)*</td>
<td>GOL 110 or GOL 105</td>
<td>BIOL 303</td>
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<tr>
<td>CHEM 211 &amp; 212 (5 credits)*</td>
<td>CHM 241 &amp; 243</td>
<td>PHYS 111N** (4 credits)*</td>
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<td>300 level Biology Elective**</td>
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<td>BIOL 405W</td>
<td>STEM 485 (9 credits)</td>
<td>STEM 402</td>
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<td>Professional Education Coursework:</td>
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<td>SCI 468</td>
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Does not include the University's General Education Language and Culture Requirement. Additional Hours may be required. See catalog for details.

**Students must choose 16 elective hours at the 300 level or above from the courses offered by the Department of Biological Sciences. Three of the courses must have a laboratory or field component (see individual course descriptions). Students may use four credits at the 200 level to satisfy the elective requirement. Elective courses must include one approved course each in botany, zoology, microbiology, and human anatomy and physiology (consult with advisor ).

Please refer to the catalog for Teacher Preparation requirements.

Professional Education Coursework satisfies the Upper Division General Education Coursework.

Requirements for graduation include completion of ENGL 110C, ENGL 211C or 221C or 231C, and the writing intensive (W) course in the major with a grade of C or better, completion of the Biology and Senior Assessments, a minimum cumulative 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 125 credit hours, which must include both a minimum of 32 credit hours overall and 12 credit hours in upper-level courses in the major program from Old Dominion University. Note that a C (2.0) must be earned in all biology courses used to satisfy departmental requirements.