

## 2019 - 2020 Old Dominion University Catalog

### 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.*

*\* 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)

##### FALL SEMESTER (14 credits)

General Education Coursework:

ENGL 110C\*  
[Oral Communication](#)  
 MATH 162M\*  
 BIOL 121N & 122N\*

VCCS Equivalency:

ENG 111  
[Transfer Guide](#)  
 MTH 161 or 163  
 BIO 101

##### SPRING SEMESTER (17 credits)

General Education Coursework:

ENGL 231C\*  
[Human Creativity](#)  
[Interpreting the Past](#)  
 BIOL 123N & 124N\*  
[Impact of Technology](#)

VCCS Equivalency:

ENG 115 or 131  
[Transfer Guide](#)  
[Transfer Guide](#)  
 BIO 102  
[Transfer Guide](#)

Professional Education Coursework:

STEM 101 (1 credit)

Professional Education Coursework:

STEM 102 (1 credit)

#### YEAR 2 - SOPHOMORE (32 CREDITS)

##### FALL SEMESTER (16 credits)

General Education Coursework:

Information Literacy and Research: CS 121G required or STEM 251G required  
Major Coursework:

STAT 130M\*  
 BIOL 291  
 CHEM 121N & 122N (4 credits)\*  
Professional Education Coursework:  
 STEM 201

VCCS Equivalency:

[Transfer Guide](#)  
 MTH 146, 155, 157, 240, 241, 242 or 245  
 CHM 111

##### SPRING SEMESTER (16 credits)

General Education Coursework:

[Human Behavior](#)

Major Coursework:

BIOL 292  
 MATH 205, 200 or 211\*  
 CHEM 123N & 124N (4 credits)\*  
Professional Education Coursework:  
 STEM 202

VCCS Equivalency:

[Transfer Guide](#)

MTH, 173, 261, 263, 270 or 271  
 CHM 112

#### YEAR 3 - JUNIOR (29 CREDITS)

##### FALL SEMESTER (15 credits)

General Education Coursework:

[Literature](#)

Major Coursework:

OEAS 110N or OEAS 111N\*\* (4 credits)\*  
 CHEM 211 & 212 (5 credits)\*  
 BIOL 293

VCCS Equivalency:

[Transfer Guide](#)

GOL 110 or GOL 105  
 CHM 241 & 243

##### SPRING SEMESTER (14 credits)

General Education Coursework:

[Philosophy and Ethics](#)

Major Coursework:

BIOL 303  
 PHYS 111N\*\* (4 credits)\*  
 300/400 level Biology Elective\*\*\* (4 credits)

VCCS Equivalency:

[Transfer Guide](#)

PHYS 111, 121, 201

#### YEAR 4 - SENIOR (33 CREDITS)

##### FALL SEMESTER (17 credits)

Major Coursework:

BIOL 405W  
 300/400 level Biology Elective\*\*\* (4 credits)  
 300/400 level Biology Elective\*\*\* (4 credits)

Professional Education Coursework:

STEM 401  
 BIOL 468W

VCCS Equivalency:

##### SPRING SEMESTER (16 credits)

Professional Education Coursework:

STEM 485 (9 credits)  
 STEM 402  
 300/400 level Biology Elective\*\*\* (4 credits)

VCCS Equivalency:

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

\*\*Must be in the following sequence: PHYS 111N & PHYS 112N or OEAS 110N & OEAS 112N or OEAS 111N & OEAS 112N

\*\*\*Students must choose 16 elective hours at the 300/400 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, 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.