

## 2020 - 2021 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)

##### FALL SEMESTER (15 credits)

###### General Education and Major Coursework:

CHEM 121N/122N(4 credits)  
MATH 163  
BIOL 121N & 122N (4 credits)  
ENGL 110C  
Professional Education Coursework:  
STEM 101 (1 credit)

###### VCCS Equivalency:

CHM 111\*  
MTH 162, 164 or 167\*  
BIO 101\*  
ENG 111\*

##### SPRING SEMESTER (16 credits)

###### General Education and Major Coursework:

CHEM 123N/124N (4 credits)  
MATH 211 (4 credits)  
BIOL 123N & 124N (4 credits)  
ENGL 211C, 221C, or 231C  
Professional Education Coursework:  
STEM 102 (1 credit)

###### VCCS Equivalency:

CHM 112\*  
MTH 173, 263 or 273\*  
BIO 102\*  
ENG 112, 210, 115 OR 131\*

#### YEAR 2 - SOPHOMORE (35 CREDITS)

##### FALL SEMESTER (15 credits)

###### Major Coursework:

CHEM 211-CHEM 212 (5 credits)  
MATH 212 (4 credits)  
COMM 101R  
Professional Education Coursework:  
STEM 201

###### VCCS Equivalency:

CHM 241 & 243\*  
MTH 174, 264, or 274\*  
CST 100, 105 or 110\*

##### SPRING SEMESTER (14 credits)

###### Major Coursework:

CHEM 213-214 (5 credits)  
Professional Education Coursework:  
STEM 202

###### VCCS Equivalency:

CHM 242 & 244 or 246\*

###### General Education Coursework:

Information Literacy and Research  
Philosophy and Ethics

[Transfer Guide](#)

[Transfer Guide](#)

##### SUMMER SEMESTER (6 credits)

###### General Education Coursework:

Interpreting the Past  
Human Creativity

###### VCCS Equivalency:

[Transfer Guide](#)  
[Transfer Guide](#)

#### YEAR 3 - JUNIOR (32 CREDITS)

##### FALL SEMESTER (15 credits)

###### Major Coursework:

PHYS 231N(4 credits)  
CHEM 321 and CHEM 322 (5 credits)  
BIOL 293  
Professional Education Coursework:  
STEM 401

###### VCCS Equivalency:

PHY 231 or 241\*

##### SPRING SEMESTER (17 credits)

###### Major Coursework:

PHYS 232N(4 credits)  
CHEM 441  
CHEM 442W (4 credits)  
Human Behavior: GEOG 101S  
Professional Education Coursework:  
STEM 402

###### VCCS Equivalency:

PHY 232 or 242\*  
  
  
GEO 200\*

#### YEAR 4 - SENIOR (31 CREDITS)

##### FALL SEMESTER (15 credits)

###### Major Coursework:

CHEM 331  
BIOL 294  
CHEM 443  
CHEM 468  
General Education Coursework:  
Impact of Technology

###### VCCS Equivalency:

[Transfer Guide](#)

##### SPRING SEMESTER (16 credits)

###### Major Coursework:

CHEM 485 (1 credit)  
CHEM 333  
Professional Education Coursework:  
STEM 485 (9 credits)  
General Education Coursework:

###### VCCS Equivalency:

Literature

[Transfer Guide](#)

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

Note: Upper division general education is satisfied through the Professional Education Core Courses.

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.