

## 2022 - 2023 Old Dominion University Catalog

### Bachelor of Science in Chemistry - 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 (29 CREDITS)

##### FALL SEMESTER (14 credits)

General Education and Major Coursework:  
CHEM 121N/122N(4 credits)  
MATH 163  
Information Literacy and Research -CHEM 160G  
ENGL 110C  
Professional Education Coursework:  
STEM 101 (1 credit)

VCCS Equivalency:  
CHM 111\*  
MTH 162, 164 or 167\*  
  
ENG 111\*

##### SPRING SEMESTER (15 credits)

General Education and Major Coursework:  
CHEM 123N/124N (4 credits)  
MATH 211 (4 credits)  
COMM 101R  
ENGL 211C, 221C, or 231C  
Professional Education Coursework:  
STEM 102 (1 credit)

VCCS Equivalency:  
CHM 112\*  
MTH 173, 263 or 273\*  
CST 100, 105 or 110\*  
ENG 112, 210, 115 OR 131\*

#### YEAR 2 - SOPHOMORE (40 CREDITS)

##### FALL SEMESTER (16 credits)

Major Coursework:  
CHEM 211-CHEM 212 (5 credits)  
MATH 212 (4 credits)  
PHYS 231N(4 credits)  
Professional Education Coursework:  
STEM 201

VCCS Equivalency:  
CHM 241 & 243 or 245\*  
MTH 174, 264, or 274\*  
PHY 231 or 241\*

##### SPRING SEMESTER (15 credits)

General Education Coursework:  
Literature  
Major Coursework:  
PHYS 232N(4 credits)  
CHEM 213-214 (5 credits)  
Professional Education Coursework:  
STEM 202

VCCS Equivalency:  
[Transfer Guide](#)  
PHY 232 or 242\*  
CHM 242 & 244 or 246\*

##### SUMMER SEMESTER (9 credits)

General Education Coursework:  
Interpreting the Past  
Human Behavior

VCCS Equivalency:  
[Transfer Guide](#)  
[Transfer Guide](#)

#### YEAR 3 - JUNIOR (33 CREDITS)

##### FALL SEMESTER (17 credits)

General Education Coursework:  
Impact of Technology  
Philosophy and Ethics  
Major Coursework:  
CHEM 441  
CHEM 351  
CHEM 321 and CHEM 322 (5 credits)

VCCS Equivalency:  
[Transfer Guide](#)  
[Transfer Guide](#)

##### SPRING SEMESTER (16 credits)

General Education Coursework:  
Human Creativity  
Major Coursework:  
CHEM 449  
CHEM 332W (2 credits)  
CHEM 331  
CHEM 333 & 334W (5 credits)

VCCS Equivalency:  
[Transfer Guide](#)

#### YEAR 4 - SENIOR (32 CREDITS)

##### FALL SEMESTER (16 credits)

Major Coursework:  
CHEM 352 or CHEM 442W (2-4 credits)  
CHEM 421 & 422 (6 credits)  
Professional Education Coursework:  
STEM 401  
CHEM 468

VCCS Equivalency:

##### SPRING SEMESTER (16 credits)

Major Coursework:  
CHEM 415 or CHEM 439 or CHEM 443 or CHEM 451  
CHEM 485 (1 credit)  
Professional Education Coursework:  
STEM 485 (9 credits)  
STEM 402

VCCS Equivalency:

*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.*

**Consult with your advisor and the ODU Catalog for Upper Division General Education Coursework.**

*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.*