

**2024 - 2025 Old Dominion University Catalog**  
**Bachelor of Science in Chemistry with a Major in Secondary Chemistry Education (6-12)(BS)**  
**(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 (17 credits)**

General Education and Major Coursework:

ENGL 110C

MATH 163

CHEM 121N/122N(4 credits)

Information Literacy and Research -CHEM 160G

Human Creativity

Professional Education Coursework:

STEM 101 (1 credit)

VCCS Equivalency:

ENG 111\*

MTH 162, 164 or 167\*

CHM 111\*

[Transfer Equivalency Guide](#)

**SPRING SEMESTER (15 credits)**

General Education and Major Coursework:

ENGL 211C or 231C

MATH 211 (4 credits)

CHEM 123N/124N (4 credits)

Philosophy and Ethics

Professional Education Coursework:

STEM 102 (1 credit)

VCCS Equivalency:

ENG 112, 210, 115 OR 131\*

MTH 173, 263 or 273\*

CHM 112\*

[Transfer Equivalency Guide](#)

**YEAR 2 - SOPHOMORE (33 CREDITS)**

**FALL SEMESTER (16 credits)**

General Education and 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\*

[Transfer Equivalency Guide](#)

**SPRING SEMESTER (17 credits)**

General Education and Major Coursework:

CHEM 213-214 (5 credits)

PHYS 232N(4 credits)

CHEM 321 and CHEM 322 (5 credits)

Professional Education Coursework:

STEM 202

VCCS Equivalency:

CHM 242 & 244 or 246\*

PHY 232 or 242\*

**YEAR 3 - JUNIOR (30-32 CREDITS)**

**FALL SEMESTER (16-18 credits)**

General Education and Major Coursework:

CHEM 331

CHEM 332W (2 credits)

CHEM 441

CHEM 351

CHEM 352 or CHEM 442W (2-4 credits)

Impact of Technology

VCCS Equivalency:

[Transfer Equivalency Guide](#)

**SPRING SEMESTER (14 credits)**

General Education and Major Coursework:

CHEM 333 & 334W (5 credits)

CHEM 449

COMM 101R

Literature

VCCS Equivalency:

CST 100 or 105\*

[Transfer Equivalency Guide](#)

**YEAR 4 - SENIOR (34 CREDITS)**

**FALL SEMESTER (18 credits)**

General Education and Major Coursework:

CHEM 421 & 422 (6 credits)

Human Behavior

Interpreting the Past

Professional Education Coursework:

STEM 401

CHEM 468

VCCS Equivalency:

[Transfer Equivalency Guide](#)

[Transfer Equivalency Guide](#)

**SPRING SEMESTER (16 credits)**

General Education and Major Coursework:

CHEM 415, 439, 443, or 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.*