2025 - 2026 Old Dominion University Catalog Bachelor of Science in Biochemistry 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 (31 CREDITS)

FALL SEMESTER (17 credits)

SPRING SEMESTER (17-18 credits)

General Education and Major Coursework: VCCS Equivalency: General Education and Major Coursework: VCCS Equivalency: ENGL 110C ENG 111* ENGL 211C or 231C ENG 112, 210, 115 OR 131* **MATH 163** MTH 162, 164 or 167* MATH 211 (4 credits) MTH 173, 263 or 273* CHEM 123N/124N (4 credits) CHEM 121N/122N(4 credits) CHM 111* CHM 112* BIO 101* BIO 102* BIOL 121N & 122N (4 credits) BIOL 123N & 124N (4 credits)

Information Literacy and Research -CHEM

160G

Professional Education Coursework:

STEM 103 (2 credits)

YEAR 2 - SOPHOMORE (32 CREDITS)

FALL SEMESTER (18 credits)

SPRING SEMESTER (14 credits)

General Education and Major Coursework: VCCS Equivalency: General Education and Major Coursework: VCCS Equivalency: CHM 241 & 243* CHEM 211-CHEM 212 (5 credits) CHEM 213-214 or 216 (5 credits) CHM 242 & 244 or 246* MTH 174, 264, or 274* MATH 212 (4 credits) Literature **Transfer Equivalency Guide** COMM 101R CST 100 or 105* Philosophy and Ethics Transfer Equivalency Guide

Human Creativity Transfer Equivalency Guide Professional Education Coursework:

Professional Education Coursework:

STEM 202 STEM 201

YEAR 3 - JUNIOR (32 CREDITS)

FALL SEMESTER (18 credits)	SPRING SEMESTER (17 credits)
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General Education and Major Coursework: VCCS Equivalency: VCCS Equivalency: General Education and Major Coursework: PHY 231 or 241* PHY 232 or 242* PHYS 231N(4 credits) PHYS 232N(4 credits)

CHEM 321 and CHEM 322 (5 credits) **CHEM 441**

CHEM 442W (4 credits) **BIOL 293**

Transfer Equivalency Guide Human Behavior: GEOG 101S GEO 200* Interpreting the Past

Professional Education Coursework: Professional Education Coursework:

STEM 402 STEM 401

YEAR 4 - SENIOR (31 CREDITS)

FALL SEMESTER (15 credits) SPRING SEMESTER (13 credits)

VCCS Equivalency: General Education and Major Coursework: VCCS Equivalency: General Education and Major Coursework:

CHEM 485 (1 credit) **CHEM 331 BIOL 294 CHEM 333**

CHEM 443 Professional Education Coursework:

CHEM 468 STEM 485 (9 credits)

Impact of Technology Transfer Equivalency 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 Cin 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.