

2025 - 2026 Old Dominion University Catalog

Bachelor of Science in Chemistry with a Major in Chemistry - Research (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 (27-28 CREDITS)

FALL SEMESTER (13 credits)

General Education and Major Coursework:
CHEM 121N/122N
MATH 163
ENGL 110C
Information Literacy and Research -CHEM 160G

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

SPRING SEMESTER (14-15 credits)

General Education and Major Coursework:
CHEM 123N/124N or CHEM 125
MATH 211
ENGL 211C or 231C
Philosophy and Ethics

VCCS Equivalency:
CHM 112*
MTH 173, 263, or 273*
ENG 112, 210, 115 OR 131*

[Transfer Equivalency Guide](#)

YEAR 2 - SOPHOMORE (32 CREDITS)

FALL SEMESTER (16 credits)

General Education and Major Coursework:
CHEM 211 & CHEM 212 (5 credits)
MATH 212
PHYS 231N
Human Creativity

VCCS Equivalency:
CHM 241 & 243 or 245*
MTH 174, 264, or 274*
PHY 231 or 241*
[Transfer Equivalency Guide](#)

SPRING SEMESTER (16 credits)

General Education and Major Coursework:
CHEM 213 & 214 or 216 (5 credits)
CHEM 321&322 (5 credits)
PHYS 232N
Elective

VCCS Equivalency:
CHM 242 & 244 or 246*

PHY 232 or 242*

YEAR 3 - JUNIOR (30-32 CREDITS)

FALL SEMESTER (16-18 credits)

Major Coursework:
CHEM 331
CHEM 352 or 442W (2-4 credits)
CHEM 351
CHEM 441
CHEM 332W (2 credits)
Impact of Technology

VCCS Equivalency:

[Transfer Equivalency Guide](#)

SPRING SEMESTER (14 credits)

General Education and Major Coursework:
CHEM 333
CHEM 334W (2 credits)
CHEM 415, 439, 443, or 451
COMM 101R

VCCS Equivalency:

CST 100, 105 or 110*

Literature

[Transfer Equivalency Guide](#)

YEAR 4 - SENIOR (29 CREDITS)

FALL SEMESTER (15 credits)

General Education and Major Coursework:
CHEM 415, 439, 443, or 451
Interpreting the Past
Human Behavior
Language and Culture I (May be waived, see catalog for details)
Upper Division Gen. Ed. Coursework:
300-/400-level Option D course

VCCS Equivalency:

[Transfer Equivalency Guide](#)
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SPRING SEMESTER (16 credits)

General Education and Major Coursework:
CHEM 421&422 (6 credits)
CHEM 485 (1 credit)
Elective
Language and Culture II (May be waived, see catalog for details)
Upper Division Gen. Ed. Coursework:
300-/400-level Option D course

VCCS Equivalency:

[Transfer Equivalency Guide](#)

***Consult catalog and with advisor for options.*

Note: Upper division general education may require more than two courses.

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, a grade of C or better in all courses required for the major, including prerequisite courses, 120 credit hours, which must include both a minimum of 30 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 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.