

2025- 2026 Old Dominion University Catalog

Bachelor of Science in Biochemistry (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 (32 CREDITS)

FALL SEMESTER (17 credits)

General Education and Major Coursework:

CHEM 121N/122N*

MATH 163*

BIOL 121N & 122N*

ENGL 110C*

Information Literacy and Research -CHEM 160G

VCCS Equivalency:

CHM 111

MTH 162, 164 or 167

BIO 101

ENG 111

SPRING SEMESTER (15 credits)

General Education and Major Coursework:

CHEM 123N/124N* or 125*

MATH 211(4credits)*

BIOL 123N & 124N*

ENGL 211C or 231C*

VCCS Equivalency:

CHM 112

MTH 173, 263 or 273

BIO 102

ENG 112, 210, 115 OR 131

YEAR 2 - SOPHOMORE (28 CREDITS)

FALL SEMESTER (15 credits)

General Education and Major Coursework:

CHEM 211 & CHEM 212*

MATH 212 (4credits)*

COMM 101R*

Language and Culture I (May be waived, see catalog for details)

VCCS Equivalency:

CHM 241 & 243

MTH 174, 264, or 274

CST 105 or 110

[Transfer Equivalency Guide](#)

SPRING SEMESTER (14 credits)

General Education and Major Coursework:

CHEM 213 & 214 or CHEM 216*

Elective**

Human Behavior

Language and Culture II (May be waived, see catalog for details)

VCCS Equivalency:

CHM 242 & 244 or 246

PHY 231 or 241

[Transfer Equivalency Guide](#)

[Transfer Equivalency Guide](#)

YEAR 3 - JUNIOR (28 CREDITS)

FALL SEMESTER (15 credits)

General Education and Major Coursework:

CHEM 321 & 322 (5 credits)

PHYS 231N*

BIOL 293

CHEM 441

VCCS Equivalency:

SPRING SEMESTER (13 credits)

General Education and Major Coursework:

CHEM 443

PHYS 232N*

CHEM 442W

Elective**

VCCS Equivalency:

PHY 232 or 242

YEAR 4 - SENIOR (31 CREDITS)

FALL SEMESTER (15 credits)

General Education and Major Coursework:

BIOL 294

CHEM 331

Interpreting the Past

Philosophy and Ethics

Upper Division Gen. Ed. Coursework:**

300-/400-level Option D course

VCCS Equivalency:

[Transfer Equivalency Guide](#)

[Transfer Equivalency Guide](#)

SPRING SEMESTER (16 credits)

General Education and Major Coursework:

CHEM 485 (1 credit)

CHEM 333

Impact of Technology

Human Creativity

Literature

Upper Division Gen. Ed. Coursework:**

300-/400-level Option D course

VCCS Equivalency:

[Transfer Equivalency Guide](#)

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***Please consult with catalog and advisor for appropriate coursework.*

Note: Upper division general education (minor) has other options, see catalog for requirements.

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.