Bachelor of Science

Chemistry (BS)

Requirements

Lower-Division General Education

Written Communication (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#written)	6
Oral Communication (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#oral)	3
Mathematics (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#math)	3
Language and Culture (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#language)	0-6
Information Literacy and Research (http://catalog.odu.edu/ undergraduate/requirements-undergraduate-degrees/#information)	3
Human Behavior (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#behavior)	3
Human Creativity (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#creativity)	3
Interpreting the Past (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#interpret)	3
Literature (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#literature)	3
Philosophy and Ethics (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#philosophy)	3
The Nature of Science (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#nature)	8
Impact of Technology (http://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#impact)	3

Written Communication: Grade of C or better required in both courses

Oral Communication: COMM 101R

Mathematics: MATH 163 and STAT 130M

Information Literacy and Research: satisfied in the major by CHEM 160G

The Nature of Science: PHYS 231N-PHYS 232N

Upper-Division General Education

- Option A. Approved Disciplinary Minor (a minimum of 12 hours determined by the department), or second degree or second major.
- Option B: Interdisciplinary Minor (specifically 12 hours, 3 of which may be in the major)
- Option C. An approved Certification Program such as teaching licensure
- Option D. Two Upper-Division Courses from outside the College of Sciences and not required by the major (6 hours)

Requirements for Graduation

Requirements for graduation include the following:

- Minimum of 120 credit hours.
- Minimum of 30 credit hours overall and 12 credit hours of upper-level courses in the major program from Old Dominion University.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken toward the major.
- Minimum overall cumulative grade point average of C (2.00) in all courses taken toward a minor.

- Completion of ENGL 110C, ENGL 211C or ENGL 231C, and the writing intensive (W) course in the major with a grade of C or better. The W course must be taken at Old Dominion University.
- · Completion of Senior Assessment.

Chemistry Major

General Education

Complete lower-division requirements (minimum of 6 credit hours) 6 Required Courses CHEM 121N Foundations of Chemistry I Lecture (cannot earn credit for both 121N and 105N) CHEM 122N Foundations of Chemistry II Laboratory 1 CHEM 123N Foundations of Chemistry II Laboratory 1 CHEM 124N Foundations of Chemistry II Laboratory 1-2 or CHEM 125 Foundations of Chemistry II Laboratory 1-2 or CHEM 126 Foundations of Chemistry II Laboratory 1-2 or CHEM 127 Foundations of Chemistry II Laboratory 1-2 or CHEM 128 Foundations of Chemistry II Laboratory 1-2 or CHEM 160G Introduction to Chemistry and Biochemistry Research and Careers CHEM 211 Organic Chemistry I Lecture 3 CHEM 212 Organic Chemistry II Laboratory 2 CHEM 213 Organic Chemistry II Laboratory 2 CHEM 214 Organic Chemistry II Laboratory 2 Or CHEM 216 Advanced Organic Chemistry Laboratory 2 CHEM 321 Analytical Chemistry Lecture 5 & CHEM 322 and Analytical Chemistry Lecture 5 & CHEM 331 Physical Chemistry Lecture 1 CHEM 331 Physical Chemistry Lecture I CHEM 331 Physical Chemistry Lecture I CHEM 332 Experimental Physical Chemistry I CHEM 333 Physical Chemistry Lecture II 3 CHEM 334W Experimental Physical Chemistry I CHEM 433 Physical Chemistry Lecture I CHEM 421 Instrumental Analysis Laboratory 2 CHEM 441 Biochemistry Lecture 3 CHEM 441 Biochemistry Lecture 3 CHEM 448 Chemistry and Biochemistry Seminar 1 Select two CHEM Electives from the following: 6 CHEM 443 Intermediate Organic Chemistry CHEM 443 Intermediate Biochemistry CHEM 445 Experimental Chemistry CHEM 445 Exper	Total Credit Hours		112-121
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Complete lower-division requirements 41-47	•	*	6
General Education		ion requirements	41-47

Chemistry majors must have a C or better in all courses required for the major, including prerequisite courses, and must complete a minimum of 12 credits in upper-level (300/400) chemistry courses at Old Dominion University. Written permission by the chief departmental advisor or chair is required prior to taking upper-level chemistry courses at other institutions.

Elective Credit

Elective credit may be needed to meet the minimum requirement of 120 credit hours.

Honors in Chemistry

The honors program provides qualified students the opportunity for supervised individual study in their areas of interest. Admission to the program requires a cumulative GPA of 3.25 or higher and a GPA of 3.50 or higher in the major. Students must take two upper-division courses designated by the department to be honors courses. These are termed "Contract Honors Courses." A description of the procedures for these contract courses is found in the Honors College section of this Catalog.

Degree Program Guide

The Degree Program Guide 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.

Course	Title	Credit Hours
Freshman		
Fall		
CHEM 121N and CHEM 122N		4
MATH 163	Precalculus II	3
ENGL 110C	English Composition (Grade of C or better required)	3
CHEM 160G	Introduction to Chemistry and Biochemistry Research and Careers	3
	Credit Hours	13
Spring		
CHEM 123N AND CHEM 124	N or CHEM 125	4-5
MATH 211	Calculus I	4
ENGL 211C or ENGL 231C (G	rade of C or better required)	3
Philosophy and Ethics		3
	Credit Hours	14-15
Sophomore		
Fall		
CHEM 211 and CHEM 212		5
MATH 212	Calculus II	4
PHYS 231N	University Physics I	4
Human Creativity		3
	Credit Hours	16
Spring		
CHEM 213 AND CHEM 214 or	r CHEM 216	5
CHEM 321 and CHEM 322		5
PHYS 232N	University Physics II	4
Elective		2
	Credit Hours	16
Junior		
Fall		
CHEM 331	Physical Chemistry Lecture I	3
CHEM 332W	Experimental Physical Chemistry I (C or better required)	2
CHEM 351	Inorganic Chemistry	3
CHEM 441	Biochemistry Lecture	3
CHEM 352 or CHEM 442W		2-4

Impact of Technology		3
	Credit Hours	16-18
Spring		
CHEM 333	Physical Chemistry Lecture II	3
CHEM 334W	Experimental Physical Chemistry II	2
CHEM 415 or CHEM 439	or CHEM 443 or CHEM 451	3
COMM 101R	Public Speaking	3
Literature		3
	Credit Hours	14
Senior		
Fall		
CHEM 415 or CHEM 439 or CHEM 443 or CHEM 451		3
Interpreting the Past		3
Human Behavior		3
Elective or Language & Cu requirement details)	ılture I (May be waived; See	3
Upper-Division General Ed	ducation Course (Option D)	3
	Credit Hours	15
Spring		
CHEM 421 and CHEM 422	2	6
CHEM 485	Chemistry and Biochemistry Seminar	1
Upper-Division General Education Course (Option D)		3
Elective or Language and C requirement details)	Culture II (May be waived: See	3
Elective		3
	Credit Hours	16
	Total Credit Hours	120-123

Linked Bachelor's/Master's Degree Programs

The linked BS in chemistry and the MS in chemistry allows exceptional students to count up to 12 hours of graduate courses toward both a BS degree in chemistry and an MS degree in chemistry. Students in the combined program must complete Senior Thesis I and II (CHEM 490 and CHEM 499), be accepted into the chemistry master's program, and earn a minimum of 150 credit hours (120 discrete credit hours for the undergraduate degree and 30 discrete credit hours for the graduate degree). Additional requirements apply; please contact the Chief Departmental Advisor.

BA or BS to MBA (Master of Business Administration) Linked Program

The linked BA/MBA or BS/MBA program is an early entry to the MBA program of study. The early-entry program is designed for well qualified non-business undergraduate ODU students to start their MBA program prior to completing their undergraduate degree. Well qualified non-business undergraduate students may take MBA-level courses as early as three semesters prior to graduation and count up to 12 graduate credits toward their undergraduate degree. Students participating in the early-entry program must earn a minimum of 150 credit hours (120 discrete credit hours for the undergraduate degree and 30 discrete credit hours for the graduate degree). Early-entry program students should carefully consider their undergraduate degree program requirements when planning their course of study. Students in the early-entry program work in close consultation with the MBA Program Office and should refer to information in the Strome College of Business section in the graduate catalog (http://catalog.odu.edu/

graduate/stromecollegeofbusiness/) to develop an individualized plan of study based on the required coursework.

BA or BS to MPA (Master of Public Administration) Linked Program

The linked BA/MPA or BS/MPA program provides qualified Old Dominion University undergraduate students with the opportunity to earn a master's degree in public administration while taking credits in the MPA program as an undergraduate student. The program is designed for highly motivated students with the desire to immediately continue their education after the bachelor's degree. The program is especially relevant to individuals seeking to work (or currently working) in the public or non-profit sectors, but is suitable for students from any undergraduate major. Graduate courses may be taken during the fall and spring semester of the student's senior undergraduate year. Up to 12 graduate credits can count toward both the undergraduate and graduate degree and can meet upper-level General Education requirements. After receiving the undergraduate degree, a student will continue with the MPA program, taking MPA courses until completing the required 39 credit hours. Students in the linked program must earn a minimum of 150 credit hours (120 discrete credit hours for the undergraduate degree and 30 discrete credit hours for the graduate degree).

Requirements for admission to the graduate program can be found in the School of Public Service section of the Graduate Catalog (http://catalog.odu.edu/graduate/business/public-service/). For additional information, please contact the School of Public Service in the Strome College of Business.