OLD DOMINION UNIVERSITY 2004-2006 Catalog

Bachelor of Science—Chemistry Major

Students earning the AS, AA, or AA&S (or university parallel) degree from a Virginia Community College automatically satisfy the lower division general education requirements. **Courses marked with * require a grade of C or better to transfer, even with the AS degree. The remaining lower division courses are automatically satisfied by the AS (including foreign language), regardless of the grade earned.** Additionally, courses in which a grade of "C-" or below were earned will not transfer. Therefore Community College degree holders may require additional credits to meet the 120 credit hour graduation minimum. **(AS=Associate degree)**

The program leading to the Bachelor of Science with a major in chemistry includes a diversity of fundamental and advanced courses in organic, inorganic, analytical, and physical chemistry. Chemistry majors must earn a grade of C or better in CHEM 115N-116N, 311, 312, 313, 314, 321, and 322. The grade point average in the major for chemistry majors is calculated based on Old Dominion University grades in all chemistry courses.

Entrance Writing Sample Placement Test:_____

		credits	
FRESHMAN FIRST SEMESTER			
CHEM 115N	Foundations of Chemistry I	4	*
MATH 163	Precalculus II	3	
ENGL 110C	English Composition I	3	
HIST 101H, 102H, 103H, 104H, or 105H		3	
CS 149D	Computer Skills	3	*
FRESHMAN SECOND SEMESTER			
CHEM 116N	Foundations of Chemistry II	4	*
MATH 211	Calculus I	4	
ENGL 111C	English Composition II	3	
HIST 101H, 102H, 103H, 104H or 105H		3	
PHIL 110P or 120P or 150P		3	
SOPHOMORE FIRST SEMESTER			
CHEM 311	Organic Chemistry Lecture I	3	
CHEM 312	Organic Chemistry Lab I	2	
MATH 212	Calculus II	4	
PHYS 231N	University Physics I	4	*
CHEM 321	Analytical Chemistry Lecture	3	
SOPHOMORE SECOND SEMESTER			
CHEM 313	Organic Chemistry Lecture II	3	
CHEM 314	Organic Chemistry Lab II	2	
PHYS 232N	University Physics II	4	*
CHEM 322	Analytical Chemistry Lab	2	
ENGL 112L or 144L or FLET 100L		3	
Social Science Perspective (GEN 101 may be used)		3	
JUNIOR FIRST SEMESTER			
CHEM 331	Physical Chemistry Lecture I	3	
CHEM 332W	Physical Chemistry Lab	2	
CHEM 441	Intro Biochemistry	3	
MATH 312 (or MATH 285)	Calculus III	4	
Social Science Perspective		3	
JUNIOR SECOND SEMESTER			
CHEM 333	Physical Chemistry Lecture	3	
CHEM 334	Physical Chemistry Lab II	2	
General Education Cluster or minor (not Biochemistry) courses (2-3 courses)		6-9	
SENIOR FIRST SEMESTER			
CHEM 423	Spectroscopic Methods	2	
CHEM 424	Electrochemical Methods	2	
CHEM 425	Separations	2	
CHEM 451	Advanced Inorganic Chem Lec	3	
CHEM 452	Advanced Inorganic Chem Lab	2	
General Education Cluster or minor (cannot be Biochemistry)		3	
SENIOR SECOND SEMESTER			
Fine and Performing Arts Perspective		3	
CHEM 485	Chemistry Seminar (meets oral communication requirement)	1	
Electives		8	

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, 120 credit hours, passage of the Exit Examination of Writing Proficiency, and completion of Senior Assessment. Additional hours may be required to meet the foreign language requirement. Chemistry majors may not use the biochemistry minor to fulfill upper-division general education requirements.