

## OLD DOMINION UNIVERSITY 2004-2006 Catalog

### Bachelor of Science—Biochemistry 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 AC-A 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)

Biochemistry 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 biochemistry majors is calculated based on Old Dominion University grades in all chemistry and biology courses.

#### FRESHMAN FIRST SEMESTER

		Credits	
CHEM 115N	Foundations of Chemistry I	4	*
MATH 163	Precalculus II	3	
ENGL 110C	English Composition I	3	
BIOL 115N	General Biology I	4	*

#### FRESHMAN SECOND SEMESTER

CHEM 116N	Foundations of Chemistry II	4	*
MATH 211	Calculus I	4	
ENGL 111C	English Composition II	3	
BIOL 116N	General Biology II	4	*
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	
MATH 312 (or MATH 285)	Calculus III	4	
PHYS 232N	University Physics II	4	*
CHEM 322	Analytical Chemistry Lab	2	
CS 149D	Computer Skills	3	*

#### JUNIOR FIRST SEMESTER

CHEM 331	Physical Chemistry Lecture I	3	
HIST 101H, 102H, 103H, 104H, or 105H		3	
ENGL 112L or 144L or FLET 100L		3	
CHEM 441	Intro Biochemistry	3	
CHEM 442W	Biochemistry Lab	2	

#### JUNIOR SECOND SEMESTER

CHEM 333	Physical Chemistry Lecture II	3	
CHEM 443	Intermediate Biochemistry	3	
CHEM 444	Intermediate Biochemistry Lab	2	
HIST 101H, 102H, 103H, 104H, or 105H		3	
Approved Biology Elective*		3-5	

#### SENIOR FIRST SEMESTER

Approved Biology Elective*		3-5	
Social Science Perspective		3	
General Education Cluster or Minor (cannot be Chemistry)		6-9	

#### SENIOR SECOND SEMESTER

Social Science Perspective		3	
Fine and Performing Arts Perspective		3	
CHEM 485 Chemistry Seminar (Satisfies oral communication requirement)		1	
General Education Cluster or Minor (cannot be Chemistry) or Electives		7	

\*Approved Biol electives: 315, 332, 407, 409, 412, 423, and 424

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.