

Bachelor of Science

Biology with a Major in Biomedical Sciences-Pre Health (BS)

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		
First Semester		
ENGL 110C	English Composition (C or better required)	3
BIOL 121N & BIOL 122N		4
CHEM 121N	Foundations of Chemistry I Lecture	3
CHEM 122N	Foundations of Chemistry I Laboratory	1
MATH 205 or MATH 211	Calculus for Life Sciences or Calculus I	3
Credit Hours		14
Second Semester		
ENGL 211C or ENGL 231C	Writing, Rhetoric, and Research (C or better required) or Writing, Rhetoric, and Research: Special Topics	3
BIOL 123N & BIOL 124N		4
CHEM 123N	Foundations of Chemistry II Lecture	3
CHEM 124N	Foundations of Chemistry II Laboratory	1
PSYC 201S	Introduction to Psychology	3
Credit Hours		14
Sophomore		
First Semester		
BIOL 240 or BIOL 250	Fundamentals of Anatomy and Physiology I or Human Anatomy and Physiology I	4
BIOL 293	Cell Biology	3
CHEM 211	Organic Chemistry I Lecture	3
CHEM 212	Organic Chemistry I Laboratory	2
STAT 130M or STAT 310	Elementary Statistics or Introductory Data Analysis	3
Credit Hours		15
Second Semester		
BIOL 241 or BIOL 251	Fundamentals of Anatomy and Physiology II or Human Anatomy and Physiology II	4
BIOL 294	Genetics	3

CHEM 213	Organic Chemistry II Lecture	3
CHEM 214	Organic Chemistry II Laboratory	2
Human Creativity		3
Credit Hours		15
Junior		
First Semester		
BIOL 302	Introduction to immunology	3
PHYS 111N	Introductory General Physics	4
Literature		3
Language and Culture I (May be waived, see requirement details)		0-3
Interpreting the Past (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#interpret)		3
Credit Hours		13-16
Second Semester		
BIOL 316	General Microbiology	3
BIOL 317 or BIOL 318	General Microbiology Laboratory or Online General Microbiology Laboratory	2
PHYS 112N	Introductory General Physics	4
Oral Communication		3
Language and Culture II (May be waived, see requirement details)		0-3
SOC 201S	Introduction to Sociology	3
Credit Hours		15-18
Senior		
First Semester		
Biology 300/400-level Writing Intensive (W) course (C or better required)		3
BIOL 440 or BIOL 416 or BIOL 454 or BIOL 476	Methods in Immunological Research or Clinical Immunology or Research in Pathogen Biology I: Laboratory Investigation or Cancer Immunology and Immunotherapy	4
300/400-level Biology elective		4-5
Philosophy & Ethics		3
Upper-Division General Education course		3
Credit Hours		17-18
Second Semester		
300/400-level Biology elective		5
CHEM 441	Biochemistry Lecture	3
Impact of Technology		3
Information Literacy and Research (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#information) (CS 121G, CS 126G, HLTH 120G, or OEAS 130G recommended)		3
Upper-Division General Education course		3
Credit Hours		17
Total Credit Hours		120-127