

Bachelor of Science

Biology with a Major in Biomedical Sciences (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
MATH 162M	Precalculus I	3
BIOL 121N	General Biology I	3
BIOL 122N	General Biology I Lab	1
CHEM 121N	Foundations of Chemistry I Lecture	3
CHEM 122N	Foundations of Chemistry I Laboratory	1
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
MATH 205	Calculus for Life Sciences	3
BIOL 123N	General Biology II	3
BIOL 124N	General Biology II Lab	1
CHEM 123N	Foundations of Chemistry II Lecture	3
CHEM 124N	Foundations of Chemistry II Laboratory	1
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
STAT 130M or STAT 310	Elementary Statistics or Introductory Data Analysis	3
CHEM 211	Organic Chemistry I Lecture	3
CHEM 212	Organic Chemistry I Laboratory	2
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

PHYS 111N	Introductory General Physics	4
Human Behavior		3
Credit Hours		14
Junior		
First Semester		
BIOL 300 or CHEM 441	Fundamental Biomolecules or Biochemistry Lecture	3
BIOL 302	Introduction to immunology	3
Information Literacy and Research (https://catalog.odu.edu/undergraduate/requirements-undergraduate-degrees/#information) (CS 121G, CS 126G, OEAS 130G, or HLTH 120G recommended)		3
Oral Communication		3
Elective or Language and Culture I (May be waived, see requirement details)		3
Credit Hours		15
Second Semester		
BIOL 316	General Microbiology	3
BIOL 317 or BIOL 318	General Microbiology Laboratory or Online General Microbiology Laboratory	2
300/400-level Biology elective		3-4
Human Creativity		3
Literature		3
Elective or Language and Culture II (May be waived, see requirement details)		3
Credit Hours		17-18
Senior		
First Semester		
Biology 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
Upper-Division General Education course		3
Interpreting the Past		3
Elective		3
Credit Hours		16
Second Semester		
300/400-level Biology elective		3-4
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Upper-Division General Education course		3
Philosophy & Ethics		3
Impact of Technology		3
Credit Hours		15-17
Total Credit Hours		120-123