BIOLOGY B.S. DEGREE REQUIREMENT CHECKLIST - CATALOG YEAR 2024-2025

(For students who declared the Biology BA as a major on or after August 1, 2024), revised 07/01/2024

4. INTRODUCTORY PHYSICS (2 Course + Workshops)

2410, 2419) or (PHYS 1425, 1429, 2415, 2419).

This requirement may be satisfied with any of the following three

combinations of two semesters of intro physics and their two associated

'workshops' (labs): (PHYS 2010, 2020, 2030, 2040) or (PHYS 1420, 1429,

This degree track is designed for students seeking a concentrated study in biology and other natural sciences, in preparation for a career in biological research or graduate studies in the biological sciences or related disciplines.

STAT 1601 or 1602 or 3220

name:	
Current Advisor:	Physics I GRADE / PLANNED TERM ☐ PHYS 2010 ☐ PHYS 2030 Lab
OHALIFYING RECHIREMENTS.	Physics II
QUALIFYING REQUIREMENTS:	D . DI N/O 0000
To declare a BS in Biology, students must first complete BIOL 3000	
and 3020, and have a minimum cumulative 2.700 GPA in these	
courses. This is an overall GPA requirement for these three courses,	not an
individual course grade requirement.	LIBBER LEVEL BLOLOGY MALOR COLUBORS
	UPPER-LEVEL BIOLOGY MAJOR COURSES
MAJOR GPA and OVERALL CREDITS (13 courses, 35 credits)	(13 courses, 35 credits)
The coursework presented for the BS degree must have an average	
at least 2.000.	Use the courses offered page for course planning:
	https://bio.as.virginia.edu/courses-offered, no more than 6 credits from
	outside the Biology Department may contribute toward a Biology major.
FOUNDATIONAL SCIENCE COURSES	
(11 courses + labs/workshops)	5. BIOLOGY CORE COURSES (5 courses, 15 credits)
	4 core courses + one additional core course from the list below.
May be completed with AP, transfer, dual enrollment or IB credit.	GRADE / PLANNED TERM
	☐ BIOL 3000 Cell Biology
1. INTRODUCTORY BIOLOGY (2 courses)	☐ BIOL 3010 Genetics
BIOL 2100 & 2200 (or AP, transfer, or dual enrollment credit) are req	uired. BIOL 3020 Evolution and Ecology
GRADE / PLANNED TERM	□ BIOL 3030 Biochemistry
□ BIOL 2100	Plus, ONE of the following core courses:
□ BIOL 2200	
	BIOL 3040 Developmental Biology -or-
O OHEMIOTRY (A common the ba)	BIOL 3050 Neurobiology -or-
2. CHEMISTRY (4 courses + labs)	EVSC 3200 Ecology
The chemistry requirement must be satisfied by completing CHEN	
1411(LAB), 1420, and 1421(LAB) (or CHEM 1810, 1811, 1420) a	
semesters of organic chemistry (CHEM 2410, 2420) with labs	
2311+2321 -or- 2411+2421). Students with AP chemistry credit me	ordanic dudin inned or midde dearlood made be at the red to terror or man
complete the laboratory courses. Completion of the acce	erated Completion of an additional core course, specifically BIOL 3040, BIOL
chemistry course series CHEM 1810, 1811, 1820, 1821, 2810, and 2	3050, or EVSC 3200, may be used as one of the four courses required.
1420) satisfies all introductory and organic chemistry lecture	List the course number, title and term for the courses you plan to take
laboratory requirements.	(list the grade received if you already completed the course):
Chemistry I GRADE / PLANNED TERM	□ BIOL 3000+
☐ CHEM 1410	□ BIOL 4000+
☐ CHEM 1411 LAB	□ BIOL 4000+
Chemistry II	
☐ CHEM 1420	□ BIOL 4000+
☐ CHEM 1421 LAB	
	7. BIOLOGY LABORATORY COURSE (1 course, 3-4 credits)
Organic Chemistry I	One upper-level laboratory course of at least 3 credit hours. The required
CHEM 2410	laboratory course may be satisfied by completing a three-or four-credit
☐ CHEM 2311 OR 2411 LAB	Biology Department laboratory course or completing any 3000 level or
Organic Chemistry II	higher course taught at Mountain Lake Biological Station.
☐ CHEM 2420	List the course number, title and term for the courses you plan to take
☐ CHEM 2321 OR 2421 LAB	(list the grade received if you already completed the course):
	□ BIOL 3000+
3. MATH and STATISTICS (3 courses)	
Students are required to complete biostatistics (STAT 2020) or intro	8. CAPSTONE (3 courses, 5 credits)
statistics (STAT 2120), a course in calculus (MATH 1190, 1210, or 13	
and a second semester of calculus or statistics from the following	
_	1 credit hour.
(MATH 1220 or 1320 or STAT 1601 or 1602 or 3220).	
ORADE / DI ANNES TESM	Capstone Independent Research GRADE / PLANNED TERM
GRADE / PLANNED TERM	BIOL 4940 (2 credits)
STAT 2020 or STAT 2120	□ BIOL 4940 (2 credits)
MATH 1190 or 1210 or 1310	Capstone Seminar
☐ MATH 1220 or 1320 or	☐ BIOL 4585 (1 credit)