Biology B.A. Major Requirements - Course Plan/Checklist

(Catalog year 2024-2025: For declarations received on or after August 1, 2024)

Your Name:

If you have a Biology Professor/s that you want to request to be your advisor, please list their name/s here:

□ Major Declaration Requirements (1 BIOL course required before you declare)

Once you complete (with a grade) <u>ONE</u> of the following courses at UVA, you are eligible to declare the major. <u>Incoming 3rd year transfer students</u> may declare the B.A. degree during their first semester, provided they are enrolled in either BIOL 3000, BIOL 3010 or BIOL 3020 (spring only). Incoming 3rd year transfer students may initially only deglare the B.A. degree in Biology.	Grade -or- Enrolled Term (for 3 rd year
may initially only declare the B.A. degree in Biology. BIOL 2100 Intro Bio w/Lab: Cell Biology & Genetics (fall) BIOL 2200 Intro Bio w/Lab: Organismal & Evolutionary Biology (spring)	transfers)
 BIOL 3000 Cell Biology (fall/spring) BIOL 3010 Genetics (fall/spring) BIOL 3020 Evolution and Ecology (spring) 	

Required Science Foundation Courses (8 courses + related labs, plan for Year 1 and 2)

It is recommended to complete foundational courses within your first two years. These requirements may be satisfied by equivalent transfer, AP, or dual enrollment credits. If you received equivalent test or transfer credit write "TR". Some courses may be offered in summer, check the Summer Session website <u>https://summer.virginia.edu</u>.

INTRODUCTORY BIOLOGY (2 courses)	Normally offered	Grade or Planned Term	Credits
BIOL 2100 Intro Bio w/Lab: Cell Biology & Genetics	Fall		4
BIOL 2200 Intro Bio w/Lab: Organismal & Evolution Biology	Spring		4

CHEMISTRY (2 courses + labs)		Normally offered	Grade or Planned Term	Credits
	CHEM 1410 Chemistry I (may use CHEM 1810)	Fall		3
	CHEM 1411 Lab (may use CHEM 1811 for both labs, less common)	Fall		1
	CHEM 1420 Chemistry II (may use CHEM 2820)	Spring		3
	CHEM 1421 Lab (may use CHEM 1811 for both labs, less common)	Spring		1

MATH A	MATH AND STATISTICS (2 courses) Pick one from each section below		Grade or Planned Term	Credits
Pick One	 STAT 2020 Stats for Biologists -or- STAT 2120 Intro to Stat Analysis 	Fall, Spring		4
Pick One	 MATH 1190 Survey Calculus I w/algebra or- MATH 1210 Survey of Calculus I -or- MATH 1310 Calculus I -or- STAT 1601 Data Sci with R -or- STAT 1602 Data Sci with Python -or- STAT 3220 Regression Analysis 	Check SIS		3

PH	PHYSICS (2 courses + labs)		Grade or Planned Term	Credits
	PHYS 2010 Physics 1 for Pre-Health Students (may also use PHYS 1420 or 1425)	Fall		3
	PHYS 2030 Physics 1 Workshop (may also use PHYS 1429)	Fall		1
	PHYS 2020 Physics 2 for Pre-Health Students (may also use PHYS 2410 or 2415)	Spring		3
	PHYS 2040 Physics 2 Workshop (may also use PHYS 2419)	Spring		1

□ Upper-Level Biology Major Courses and Major GPA (8 courses, 24 Credits total)

Students are required to complete a minimum of <u>24 credits</u> of upper-level coursework including the three core courses, BIOL 3000, 3010, 3020, 1 lab course and elective courses. The coursework presented for the BA degree must have an overall GPA of at least 2.000. No more than 6 credits from outside the Biology Department may contribute toward the Biology major. No more than 6 credit hours of independent study and research courses may be applied towards the B.A. in Biology, including BIOL 3900, BIOL 4910/4920, or BIOL 4900. BIOL 3420 Human Anatomy and Physiology II does NOT count toward the major. Refer the requirements page for additional requirements details https://bio.as.virginia.edu/bachelor-arts-biology-ba.

LOGY CORE COURSES (3 courses, 9 credits) requirement may not be satisfied by post-matriculation transfer credit.	Normally offered	Grade or Planned Term	Credits
BIOL 3000 Cell Biology	Fall, Spring		3
BIOL 3010 Genetics and Molecular Biology	Fall, Spring		3
BIOL 3020 Evolution and Ecology	Spring		3

BIOLOGY ELECTIVE COURSES (5 courses, 15 credits)

Students must complete 15 elective credits in biology at or above the 3000 level explained below. Each course you select may only count once for credit for the major. Do not list the same course more than once in your plan.

One Biology Laboratory Course (1 Course, 3-4 Credits) -or- two semesters of Independent Biology Research	Grade or Planned Term	Credits
Visit the Undergraduate Research page to learn more about work outside of the biology department (BIOL 4910). BIOL 4910 (LAB) Life Sciences Research - 2 semesters (2+2, 4 BIOL 4920 (LAB) Biology Research - 2 semesters (2+2, 4 cred	e Detective (3) (fall) e) or spring) (spring) mlbs.virginia.edu edergraduate biology research conducted with the same faculty mentor. ing in a research lab within the Biology Department (BIOL 4920) or 4 credits total) dits total)		3-4
courses are open to your choice, and may also be selected from	· · ·	Grade or Planned Term	Credits
□ Specific Elective 1 (3-4 credits):			
Open Elective 2 (3-4 credits):			
 Open Elective 3 (3-4 credits): Add additional credit here to reach 15 credits of electives; can be courses (limit of 6 credits overall for the major). Open Elective 4: 	less than 3 credits and may include BIOL independent research or study		
	Total Elective Credits (Lab + Elective credits mus	st total 15 or more):	

The courses listed on your plan are your best guess for how you will fulfill your requirements and are subject to suitable changes based on course availability and preference. Once you declare the major, you are responsible for checking your SIS Academic Requirements report to ensure you are fulfilling the courses required for your degree and your major. **Questions?** Contact the Undergraduate Coordinator, Lisa Ishler, <u>BIOL-</u>UG@virginia.edu, 434-982-5614