

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

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

<https://bio.as.virginia.edu/how-to-declare>

Major Declaration Requirements (1 course required before you declare)

Complete (with a grade) ONE of the following courses at UVA and you are eligible to declare (3rd year transfers see section below this one)	Enter Course, Term & Year Completed	Your Grade
<ul style="list-style-type: none"> BIOL 2100 Intro Bio w/Lab: Cell Biology & Genetics (fall) BIOL 2200 Intro Bio w/Lab: Organismal & Evolutionary Biology (spring) Any 3000 Level (BIOL 3000, 3010, 3020, 3030, 3040, or 3050) 		

Incoming 3rd year transfer students may declare the B.A. degree during their first semester, provided they are enrolled in either BIOL 3000 or BIOL 3010. Incoming 3rd year transfer students may initially only declare the B.A. degree in Biology.	Enter Course, Term & Year Enrolled	Your Grade
<ul style="list-style-type: none"> Enrolled in BIOL 3000 -or- BIOL 3010 at UVA (offered Fall/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. Some courses may be offered in summer, check the Summer Session website <https://summer.virginia.edu>.

1. INTRODUCTORY BIOLOGY (2 courses)	Normally offered	Enter Term & Year Planned or Taken Write "TR" for transferred courses	Your Grade	Credit Hours
BIOL 2100 Intro Bio w/Lab: Cell Biology & Genetics	Fall			4
BIOL 2200 Intro Bio w/Lab: Organismal & Evolutionary Biology	Spring			4

2. CHEMISTRY (2 courses + labs)	Normally offered	Enter Term & Year Planned or Taken Write "TR" for transferred courses	Your Grade	Credit Hours
CHEM 1410 Intro College Chemistry I (may use CHEM 1810)	Fall			3
CHEM 1411 Lab (may use CHEM 1811 for both labs, less common)	Fall			1
CHEM 1420 Intro College Chemistry II	Spring			3
CHEM 1421 Lab (may use CHEM 1811 for both labs, less common)	Spring			1

3. MATH/STATS (2 courses; select one course from each section)	Normally offered	Enter Course, Term & Year Planned or Taken Write "TR" for transferred courses	Your Grade	Credit Hours
Pick one: <ul style="list-style-type: none"> STAT 2020 Statistics for Biologists -or- STAT 2120 Intro to Statistical Analysis 	Fall Fall, Spring			4
Pick one: <ul style="list-style-type: none"> MATH 1190 A Survey of Calculus I with Algebra -or- MATH 1210 A survey of Calculus I -or- MATH 1310 Calculus I -or- STAT 1601 Introduction to Data Science with R -or- STAT 1602 Introduction to Data Science with Python -or- STAT 3220 Introduction to Regression Analysis 	Varies			3

4. PHYSICS (2 courses + labs)	Normally offered	Enter Term & Year Planned or Taken Write "TR" for transferred courses	Your Grade	Credit Hours
PHYS 2010 Principles of Physics 1 for Pre-Health Students (may also use PHYS 1420 or 1425)	Fall			3
PHYS 2030 Principles of Physics 1 Workshop (may also use PHYS 1429)	Fall			1
PHYS 2020 Principles of Physics 2 for Pre-Health Students (may also use PHYS 2410 or 2415)	Spring			3
PHYS 2040 Principles of Physics 2 Workshop (may also use PHYS 2419)	Spring			1

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

Students are required to complete a minimum of **24 credits** of upper-level coursework including the three core courses, BIOL 3000, 3010, 3020, 1 lab course and 4 elective courses. The coursework presented for the BA degree must have an overall GPA of at least 2.000. Refer the requirements page for additional requirements details <https://bio.as.virginia.edu/requirements-bachelor-arts-ba-biology>.

5. BIOLOGY CORE COURSES (3 courses, 9 credits) This requirement may not be satisfied by post-matriculation transfer credit.	<i>Normally offered</i>	Enter the Term and Year that you completed or plan to take the course	Your Grade	Credit Hours
BIOL 3000 Cell Biology	Fall, Spring			3
BIOL 3010 Genetics and Molecular Biology	Fall, Spring			3
BIOL 3020 Evolution and Ecology	Spring			3

Biology Electives (5 courses, 15 credits)

6. LABORATORY COURSE REQUIREMENT (1 course, 3-4 credits)	Enter course, term and year that you completed or plan to take the course	Your Grade	Credit Hours
Select at least one approved Lab course: <input type="checkbox"/> BIOL 3270 (LAB) General Microbiology with Laboratory (4cr) <input type="checkbox"/> BIOL 3410 (LAB) Human Anatomy & Physiology I (4cr) <input type="checkbox"/> Any 4000 level Labs – see website for complete listing: https://bio.as.virginia.edu/list-biology-courses-disciplinary-area <input type="checkbox"/> BIOL 4910 Independent Research in the Life Sciences [used for research that is with a professor/PI outside of the Biology dept. Two semesters independent research under the same professor is required to count as a lab] (2+2, 4cr) <input type="checkbox"/> BIOL 4920 Independent Research in Biology [two semesters independent research under the same professor is required to count as a lab] (2+2, 4cr)	Lab Elective Course:		

7. SPECIFIC ELECTIVE COURSE (1 course, 3 credits)	Enter course, term and year that you completed or plan to take the course	Your Grade	Credit Hours
Select at least one elective course from list below <input type="checkbox"/> BIOL 3030 Biochemistry <input type="checkbox"/> BIOL 3040 Developmental and Regenerative Biology <input type="checkbox"/> BIOL 3050 Neurobiology <input type="checkbox"/> BIOL 3090 Infectious Disease Biology <input type="checkbox"/> BIOL 3180 Plant Biology <input type="checkbox"/> BIOL 3240 Immunology <input type="checkbox"/> BIOL 3250 Animal Behavior <input type="checkbox"/> BIOL 3270 General Microbiology <input type="checkbox"/> BIOL 3450 Biodiversity and Conservation Biology	Specific Elective:		

8. REMAINING ELECTIVE COURSES (3 courses, 9 credits) choose any 3 credit (or higher) 3000-level or higher biology course or select EVSC or CHEM classes listed on the biology website, except for the Core Courses (BIOL 3000, BIOL 3010, BIOL 3020) and independent research or study courses. https://bio.as.virginia.edu/courses-offered Approved courses taken outside of Biology are limited to 6 credits or less.	Enter the term and year that you completed or plan to take the course	Your Grade	Credit Hours
Elective:			
Elective:			
Elective:			

Total Elective Credits (Lab + Elective credits must 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, BIOL-UG@virginia.edu, 434-982-5614