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

(**Catalog year 2025-2026**: For declarations received on or after August 1, 2025)

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 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**
☐ BIOL 2100 Intro Bio w/Lab: Cell Biology & Genetics (fall) ☐ BIOL 2200 Intro Bio w/Lab: Organismal & Evolutionary Biology (spring) ☐ Any 3000-level core class (BIOL 3000, 3010, 3020)		

Incoming 3rd year transfer students may declare the B.A. degree during their first semester, provided they are enrolled in BIOL 3000, BIOL 3010, or BIOL 3020. Incoming 3rd year transfer students may initially only declare the B.A. degree in Biology.	**Enter Course, Term & Year Enrolled**	**Your Grade**
☐ Enrolled in BIOL 3000, BIOL 3010 or BIOL 3020 at UVA		

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.

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 & Evolution Biology	*Spring*			4

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 *(may use CHEM 2820)*	*Spring*			3
☐ CHEM 1421 Lab *(may use CHEM 1811 for both labs, less common)*	*Spring*			1

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:	☐ STAT 2020 Statistics for Biologists **-or-** ☐ STAT 2120 Intro to Statistical Analysis	*Fall* *Fall, Spring*			4
Pick one:	☐ 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

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 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. As of Spring 2025, BIOL 3420 Human Anatomy and Physiology II can count toward the Biology BA as one of the open electives. Refer to the requirements page for additional requirements details https://bio.as.virginia.edu/bachelor-arts-biology-ba.

BIOLOGY CORE COURSES (3 courses, 9 credits) This requirement may not be satisfied by post-matriculation transfer credit.	***Normally offered***	**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 ELECTIVE COURSES (4-5 courses, 15 credits) Students must complete 15 additional elective credits in biology at or above the 3000 level explained below. **Do not list the same course more than once. Courses can only count once for credits.**

One Laboratory Course (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: ☐ BIOL 3270 (LAB) General Microbiology with Laboratory (4) ☐ BIOL 3410 (LAB) Human Anatomy & Physiology I (4) ☐ BIOL 4018 (LAB) NextGen Sequencing: Minions the Microbe Detective (3) ☐ BIOL 4020 (LAB) Computational Evolutionary Biology (3) ☐ BIOL 4040 (LAB) Laboratory in Cell Biology (3) ☐ BIOL 4070 (LAB) Developmental Biology Laboratory (3) ☐ BIOL 4270 (LAB) Animal Behavior Laboratory (3) ☐ BIOL 4430 (LAB) Experimental Plant Biology Laboratory (3) ☐ BIOL 4752 (LAB) Stream Ecology (3) ☐ BIOL 4754 (LAB) Field Herpetology (3) ☐ BIOL 4755 (LAB) Field Biology of Fishes (3) ☐ BIOL 4762 (LAB) Field Behavioral Ecology (3) The lab requirement may be also satisfied by two semesters of undergraduate biology research conducted with the same faculty mentor. Visit the Undergraduate Research page to learn more about working in a research lab within the Biology Department (BIOL 4920) or outside of the biology department (BIOL 4910). ☐ BIOL 4910 (LAB) Life Sciences Research - 2 semesters (2+2, 4 credits total) ☐ BIOL 4920 (LAB) Biology Research - 2 semesters (2+2, 4 credits total)			

Elective Courses: ***You must include at least one course from the list below;*** your second and third elective courses may also be selected from this list, or can be other 3 credits (or higher) 3000-level or higher BIOL course or select EVSC or CHEM classes listed on the biology courses offered web page, except core courses (BIOL 3000, BIOL 3010, BIOL 3020) or independent research or study courses. **Do not list the same course more than once on this form.** Visit this page to find more biology course electives: https://bio.as.virginia.edu/courses-offered

Specific elective list:

1. BIOL 3030 Biochemistry
2. BIOL 3040 Developmental and Regenerative Biology
3. BIOL 3050 Neurobiology
4. BIOL 3090 Infectious Disease Biology
5. BIOL 3180 Plant Biology
6. BIOL 3240 Immunology
7. BIOL 3250 Animal Behavior
8. BIOL 3270 General Microbiology
9. BIOL 3450 Biodiversity and Conservation Biology

List the course number and title of your chosen elective courses	**Enter term and year that you completed or plan to take the course**	**Your Grade**	**Credit Hours**
☐ **Specific Elective:**			
☐ **3 Credit Elective:**			3
☐ **3 Credit Elective:**			3
Add additional credit here to reach 15 credits of electives; can be less than 3 credits and may include BIOL independent research or study courses ☐ **Additional electives:**			

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, Petra Turner, BIOL-UG@virginia.edu, 434-982-5614.