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

(Catalog year 2024-2025: For declarations received on or after August 1, 2024, revised 3/20/25)

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Your Nar	ne:				
If you ha	ve a Biology Professor/s that you want to request to be your ac	lvisor, please	list their name	/s here:	
□ Maj	or Declaration Requirements (1 UVA BIOL course requ	uired before	you declare)		
Once you complete (with a grade) <u>ONE</u> of the following courses at UVA, you are eligible to declare <u>Incoming 3rd year transfer students</u> may declare the B.A. degree during their first semester, pro are enrolled in one 3000-level Biology course. Incoming 3rd year transfer students may initially of the B.A. degree in Biology.			ovided they Enrolled Term		
<ul> <li>□ BIOL 2100 Intro Bio w/Lab: Cell Biology &amp; Genetics (fall)</li> <li>□ BIOL 2200 Intro Bio w/Lab: Organismal &amp; Evolutionary Biology (spring)</li> <li>□ One 3000-level Biology Course</li> </ul>					
It is recon transfer, A	uired Science Foundation Courses (8 courses + related mended to complete foundational courses within your first two years. AP, or dual enrollment credits. If you received equivalent test or transfer theck the Summer Session website <a href="https://summer.virginia.edu">https://summer.virginia.edu</a> .	These requirer	nents may be sat	risfied by ec	•
INTRODUCTORY BIOLOGY (2 courses)		Normally offered	Grade or Planned Term Cre		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
☐ CHE	M 1421 Lab (may use CHEM 1811 for both labs, less common)	Spring			1
MATH AND STATISTICS (2 courses) Pick one from each section below		Normally Offered	Grade or Planned Term		Credits
Pick One	□ STAT 2020 Stats for Biologists -or- □ STAT 2120 Intro to Stat Analysis	Fall, Spring			4
Pick One	<ul> <li>MATH 1190 Survey Calculus I w/algebra or-</li> <li>MATH 1210 Survey of Calculus I -or-</li> <li>MATH 1310 Calculus I -or-</li> <li>STAT 1601 Data Sci with R -or-</li> <li>STAT 1602 Data Sci with Python -or-</li> <li>STAT 3220 Regression Analysis</li> </ul>	Offerings Vary  Note: STAT 1601 & 1602 are not available to 4 <sup>th</sup> year students			3
PHYSICS (2 courses + labs)		Normally offered	Grade or Plann	ed Term	Credits
☐ PHYS 2010 Physics 1 for Pre-Health Students (may also use PHYS 1420 or 1425)		Fall			3

Fall

Spring

Spring

1

3

☐ PHYS 2010 Physics 1 for Pre-Health Students (may also use PHYS 1420 or 1425)

☐ PHYS 2020 Physics 2 for Pre-Health Students (may also use PHYS 2410 or 2415)

☐ PHYS 2030 Physics 1 Workshop (may also use PHYS 1429)

☐ PHYS 2040 Physics 2 Workshop (may also use PHYS 2419)

□ Upper-Level Biology 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. BIOL 3420 Human Anatomy and Physiology II does NOT count toward the major. Refer the undergraduate record for additional requirements details.						
BIOLOGY CORE COURSES (3 courses, 9 credits)  This requirement may not be satisfied by post-matriculation transfer credit.	Normally offered	Grade or Planned Term	Credits			
BIOL 3000 Cell Biology	Fall, Spring	Flamieu leim	3			
□ BIOL 3010 Genetics and Molecular Biology	Fall, Spring		3			
	Fall		3			
☐ BIOL 3020 Evolution and Ecology	ruii		3			
BIOLOGY ELECTIVE 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. Use the courses offered page to help you plan your courses:						
One Biology Laboratory Course (1 Course, 3-4 Credits) -or- two semesters of Independent Biol	Grade or Planned Term	Credits				
Select at least one approved Lab course:    BIOL 3270 (LAB) General Microbiology with Laboratory (4) (spring)   BIOL 3410 (LAB) Human Anatomy & Physiology I (4) (fall)   BIOL 4018 (LAB) Human Anatomy & Physiology I (4) (fall)   BIOL 4018 (LAB) Human Evolutionary Biology (3) (fall)   BIOL 4020 (LAB) Computational Evolutionary Biology (3) (fall)   BIOL 4040 (LAB) Laboratory in Cell Biology (3) (spring)   BIOL 4070 (LAB) Developmental Biology Laboratory (3) (fall or spring)   BIOL 4270 (LAB) Animal Behavior Laboratory (3) (fall)   Summer Field Labs at Mountain Lake Biological Station https://mlbs.virginia.edu   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)			3-4			
Elective Biology Courses: You must include at least one course from the specific list below; your second courses are open to your choice, and may also be selected from the specific elective list below, or can be any higher) 3000-level or higher BIOL course or select EVSC or CHEM classes listed on the undergraduate record, (BIOL 3000, BIOL 3010, BIOL 3020), BIOL 3420 A&P II, or independent research or study courses. Find curren offerings by semester here: <a href="https://bio.as.virginia.edu/courses-offered">https://bio.as.virginia.edu/courses-offered</a>	Grade or Planned Term	Credits				
□ Specific Elective 1 (3-4 credits) (choose at least one): □ BIOL 3030 Biochemistry □ BIOL 3240 Immunology □ BIOL 3040 Developmental and Regenerative Biology □ BIOL 3250 Animal Behavior □ BIOL 3050 Neurobiology □ BIOL 3270 General Microbiology □ BIOL 3090 Infectious Disease Biology □ BIOL 3450 Biodiversity and Conservatio □ BIOL 3180 Plant Biology □ Open Elective 2 (3-4 credits):	n Biology					
Open Elective 2 (3-4 credits):						

The courses listed on your plan are your best estimation 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 Stellic Academic Requirements report to ensure you are fulfilling the courses required for your degree and your major. **Questions?** Contact the Undergraduate Coordinator, Petra Turner, <a href="mailto:BIOL-UG@virginia.edu">BIOL-UG@virginia.edu</a>, 434-982-5614

Total Elective Credits (Lab + Elective credits must total 15 or more):

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 (limit of 6 credits overall for the major).

Open Elective 4: