

# BIOLOGY B.S. DEGREE REQUIREMENT CHECKLIST (B.A. declared on or after 8/1/15)

revised 4/4/16

## MAJOR DECLARATION REQUIREMENTS:

In order to declare a BS in Biology, students must complete BIOL 3000, 3010 and 3020, and have a cumulative 2.700 GPA in these three courses. This is an overall GPA requirement for these three courses, not an individual course grade requirement.

## MAJOR GPA and OVERALL CREDITS:

Students are required to complete 6 core courses, at least 6 credits of lab work, and at least 9 credits of 4000-level elective courses(outlined here in 4-6). The coursework presented for the BS degree must have an average GPA of at least 2.000.

### 1. INTRODUCTORY BIOLOGY:

BIOL 2100 & 2200 (or AP credit or 2010, 2020, 2030 & 2040) are required. (Students who have AP or IB credit for BIOL 2010 & 2020 alone are exempt from the requirement for BIOL 2030 & 2040.)

	<u>Grade / Planned Term</u>
<input type="checkbox"/> <b>BIOL 2100</b> (or 2010 & 2030 or AP/IB credit)	
<input type="checkbox"/> <b>BIOL 2200</b> (or 2020 & 2040 or AP/IB credit)	

### 2. CHEMISTRY:

The chemistry requirement must be satisfied by completing CHEM 1410, 1420, 1411 and 1421 (or CHEM 1810- 1821 or CHEM 1610-1621) and two semesters of organic chemistry (CHEM 2410 and 2420). Students with AP chemistry credit must still complete the laboratory courses. The entire B.S. chemistry requirement may be fulfilled by completing the chemistry majors' sequence (CHEM 1810, 1820, 2810, 2820), along with at least 2 semesters of the associated labs.

	<u>Grade / Planned Term</u>
<input type="checkbox"/> <b>CHEM 1410</b> (or AP credit, CHEM 1810/1610)	
<input type="checkbox"/> <b>CHEM 1420</b> (or AP credit, CHEM 1820/1620))	
<input type="checkbox"/> <b>CHEM 2410</b>	
<input type="checkbox"/> <b>CHEM 2420</b>	

#### LABORATORY REQUIREMENT

<input type="checkbox"/> <b>CHEM 1411</b> (or CHEM 1811/1611)	
<input type="checkbox"/> <b>CHEM 1421</b> (or CHEM 1821/1621)	

### 3. MATH and PHYSICS:

Students are required to complete biostatistics (STAT 2020) and one course in calculus (MATH 1210, 1220, 1310 or 1320), as well as three credits of Physics (PHYS 1425, 1610, 2010). Calculus requirement may be satisfied by AP credit.

	<u>Course Subject/Number</u>	<u>Grade / Planned Term</u>
<input type="checkbox"/> <b>STAT 2020:</b>		
<input type="checkbox"/> <b>Calculus :</b>		
<input type="checkbox"/> <b>PHYSICS COURSE (3 cr.):</b>		

### 4. BIOLOGY CORE COURSES:

BIOL 3000, 3010, 3020, 3030, 3040 and 3050 are all required for the Biology BS. These courses must be taken at UVA. Generally, transfer credit for these courses is not accepted.

		<u>Grade / Planned Term</u>	<u>Credit</u>
<input type="checkbox"/>	<b>BIOL 3000</b>		3
<input type="checkbox"/>	<b>BIOL 3010</b>		4
<input type="checkbox"/>	<b>BIOL 3020</b>		3
<input type="checkbox"/>	<b>BIOL 3030</b>		3
<input type="checkbox"/>	<b>BIOL 3040</b>		3
<input type="checkbox"/>	<b>BIOL 3050</b>		3

### 5. BIOLOGY LABORATORY COURSES:

Students must complete at least 6 credits of laboratory work at/above the 3000-level. The lab requirement can be satisfied by any combination of: i) a 3- or 4-credit departmental laboratory course, ii) any 3000-level or higher field course at Mountain Lake Biological Station, iii) two semesters of independent research (BIOL 4910/4920), conducted in the same laboratory. A maximum of 4 credits of Independent Research may be applied toward the laboratory requirement..

		<u>Grade / Planned Term</u>	<u>Credit</u>
<input type="checkbox"/>	<b>BIOL Lab</b>		
<input type="checkbox"/>	<b>BIOL Lab</b>		
<input type="checkbox"/>	<b>2x IND RES</b>		

### 6 . 4000-LEVEL COURSES:

Students must complete at least 9 credits of 4000-level or above (lecture or lab) elective courses (min. 3 credits each). Independent Research, DMP Seminar, and courses from the Department of Environmental Sciences may be applied to this requirement, subject to stipulations listed on the Biology website.

		<u>Grade / Planned Term</u>	<u>Credit</u>
<input type="checkbox"/>	<b>BIOL 4000-level+</b>		
<input type="checkbox"/>	<b>BIOL 4000-level+</b>		
<input type="checkbox"/>	<b>BIOL 4000-level+</b>		