

# BIOLOGY B.A. DEGREE REQUIREMENT CHECKLIST

## (For majors declaring on or after August 1, 2023)

### MAJOR DECLARATION REQUIREMENTS:

In order to declare a BA in Biology, students must first complete BIOL 2100. A student who has AP, transfer or dual enrollment credit for BIOL 2100 may substitute any 3000---level BIOL course. Incoming 3rd year transfer students may declare a BA in their first semester, provided that they are enrolled in either BIOL 3000 or BIOL 3010.

### MAJOR GPA and OVERALL CREDITS:

Students are required to complete a minimum of 22 credits of upper level coursework including the three core courses, BIOL 3000, 3010, 3020, lab courses and elective courses (outlined here in 4---6). The coursework presented for the BA degree must have an overall GPA of at least 2.000.

### 1. INTRODUCTORY BIOLOGY:

BIOL 2100 & 2200 are required. (Students who have AP, transfer, dual enrollment, or IB credit for BIOL 2100/2200 are exempt.)

Grade/ Planned term

BIOL 2100 \_\_\_\_\_

BIOL 2200 \_\_\_\_\_

### 2. CHEMISTRY:

The chemistry requirement must be satisfied by completing CHEM 1410, 1420, 1411 and 1421 (or CHEM 1810, 1811, 1420). Students with AP, transfer, or dual enrollment credit, for only the lecture component, must still complete the laboratory courses. The lab requirement can be met with CHEM 1411 and 1421 (or CHEM 1811). Together, CHEM 1810, CHEM 1811, and CHEM 1420 satisfy the above requirement.

Grade/Planned term

CHEM 1410 \_\_\_\_\_

CHEM 1411 (1 credit lab) \_\_\_\_\_

CHEM 1420 \_\_\_\_\_

CHEM 1421 (1 credit lab) \_\_\_\_\_

-OR-

CHEM 1810 \_\_\_\_\_

CHEM 1811 (2 credit lab) \_\_\_\_\_

CHEM 1420 \_\_\_\_\_

### 3. MATH:

Students are required to complete either biostatistics (STAT 2020) or intro to statistics (STAT 2120). Students are also required to complete **ONE** of the following courses: MATH 1190, 1210, 1310 or STAT 1601, 1602, 3220. This requirement may be satisfied by AP, transfer, or dual enrollment credit for calculus.

Grade/Planned term

STAT 2020 or STAT 2120 \_\_\_\_\_

Additional MATH or STAT course \_\_\_\_\_

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### PHYSICS:

Two semesters of physics lectures and associated 'Workshops' (labs). One group of the following: **Option 1:** (PHYS 2010, 2020, 2030, and 2040) **Option 2:** (PHYS 1420, 1429, 2410, and 2419) **Option 3:** (PHYS 1425, 1429, 2415, and 2419)

Grade/Planned term

PHYS Lecture 1 \_\_\_\_\_

PHYS Workshop 1 \_\_\_\_\_

PHYS Lecture 2 \_\_\_\_\_

PHYS Workshop 2 \_\_\_\_\_

### 4. BIOLOGY CORE COURSES (9 credits):

BIOL 3000, 3010, and 3020 are required. This requirement may not be satisfied by post-matriculation transfer credit.

Grade/Planned term

BIOL 3000 \_\_\_\_\_

BIOL 3010 \_\_\_\_\_

BIOL 3020 \_\_\_\_\_

### 5. BIOLOGY ELECTIVE COURSES (13 credits):

Only 3000---/4000---level courses count toward elective credit for the Biology major. Up to 6 credits of elective courses may be taken outside the Biology Department [e.g. EVSC 3200 (3 credits)]. Students who complete both CHEM 4410 and CHEM 4420 may apply six credits toward the Biology elective requirements. No more than 6 credits of independent research may be applied to the overall Biology BA degree. Students who are double-majors in Biology and another department must have 18 Biology credit hours that are not shared with another major. Students may choose any 3000--- or 4000---level courses to satisfy Biology major elective credits; however, elective credits must include at least one course (3- or 4-credit) from each of three disciplinary areas of biology. The elective courses must also include at least 3 credits of laboratory work.

**Laboratory Course:** The lab requirement can be satisfied with a laboratory course at UVA or through a field course taught at the Mountain Lake Biological Station. This requirement may also be satisfied with 2 semesters of independent research (BIOL 4910/4920) conducted under the direction of the same faculty mentor. The laboratory course may also be used to satisfy one of the disciplinary elective requirements.

Grade/Planned term

BIOL 3XXX/4XXX Lab Course \_\_\_\_\_

BIOL 4910/4920 \_\_\_\_\_

**Disciplinary Courses:** Can be satisfied by one or more lab courses listed above. See the Biology Undergraduate BA Programs webpage for lists of courses that satisfy disciplinary area requirements. **Grade/Planned term**

I. **Cell/Molecular Biol.** \_\_\_\_\_

II. **Integrative Biol.** \_\_\_\_\_

III. **Evolution/Ecology** \_\_\_\_\_