

## Biology B.S. Degree Requirement Checklist

### Basic Requirements

1. **Introductory Biology:** BIOL 2010, 2020, 2030, and 2040 are required. Biology AP Credit: Students who have AP credit for BIOL 2010/2020 must take BIOL 2030 and 2040 or have [equivalent experiences](#).
 

	<u>Grade/Planned Term</u>
<input type="checkbox"/> BIOL 2010 (Or AP Credit)	_____
<input type="checkbox"/> BIOL 2020 (Or AP Credit)	_____
<input type="checkbox"/> BIOL 2030 (Or Equiv. Exp.)	_____
<input type="checkbox"/> BIOL 2040 (Or Equiv. Exp.)	_____
  
2. **Chemistry Requirement:** The chemistry requirement must be satisfied by completing CHEM 1410, 1420, 1411, and 1421 (or CHEM 1810, 1820, 1811, and 1821) and two semesters of organic chemistry lecture (CHEM 2401 and 2420). Students with AP chemistry credit for 1410 and 1420 must still complete the laboratory courses. The laboratory requirement can be met with 1411 plus 1421, 1811 plus 1821, two higher level lab courses, or the one-semester CHEM 2220 (Solutions Chemistry). Organic lab is not required.
 

<input type="checkbox"/> CHEM 1410 (or AP Credit, CHEM 181)	_____
<input type="checkbox"/> CHEM 1420 (or AP Credit, CHEM 182)	_____
<input type="checkbox"/> Chemistry Lab Requirement	
<input type="checkbox"/> CHEM 1411 (or CHEM 1811)	_____
<input type="checkbox"/> CHEM 1421 (or CHEM 1821)	_____
<b>OR</b>	
<input type="checkbox"/> TWO higher level Chemistry Lab Courses	
COURSE: _____	_____
COURSE: _____	_____
<b>OR</b>	
<input type="checkbox"/> CHEM 2220:	_____
<input type="checkbox"/> CHEM 2410	_____
<input type="checkbox"/> CHEM 2420	_____
  
3. **Math & Physics Requirements:** Majors are required to complete two courses in calculus (MATH 1210, 1220, 1310, or 1320) or statistics (STAT 2559, 2120 or an equivalent or higher level course in another department) AND 3 hours of Physics.
 

<input type="checkbox"/> Two Math Courses (MATH 1210, 1220, 1310, 1320, STAT 2559, STAT 2120)	
<input type="checkbox"/> COURSE: _____	_____
<input type="checkbox"/> COURSE: _____	_____
<input type="checkbox"/> 3 credit hours Physics (PHYS 1410, 1420, 1610, 1620, 2010, 2020).	_____

### Upper Level Requirements

- A. **Biology "Core" Course Requirements:** Majors are required to complete BIOL 3000, BIOL 3010, and BIOL 3020 by the end of their third year. Exception made for third year transfer students.
 

	<u>Grade/Planned Term</u>	<u>Credits</u>
<input type="checkbox"/> BIOL 3000	_____	3
<input type="checkbox"/> BIOL 3010	_____	4
<input type="checkbox"/> BIOL 3020	_____	3
  
- B. **Biology Laboratory Course Requirements:** Majors must complete at least 3 hours of laboratory course work at or above the 3000 level and 3 hours of 4000-level laboratory course work. These lab requirements can be satisfied by a "formal" BIOL laboratory course or a course taught at Mountain Lake Biological Station. The 3000-level lab requirement can be satisfied by completing 2 semesters of BIOL 4911-4918 Independent Research conducted under the direction of the same faculty mentor. The 4000-level lab requirement can be satisfied by completing a 3rd semester of BIOL 4911-4918 Research, again conducted under the direction of the same faculty mentor.
 

<input type="checkbox"/> 3000 (or 4000) Level Lab:	
COURSE: _____	_____
<input type="checkbox"/> 4000+ Level Lab:	
COURSE: _____	_____
  
- C. **Upper-Level Biology Course Requirements:** Majors are required to complete a minimum of 33 credits of upper-level (3000 or above) biology courses (includes BIOL 3000, 3010, 3020 and 2-three credit labs). B.S. students must complete a minimum of **four 4000-level** biology courses of at least 3 credits each. The required 4000 level lab course, [independent research](#) and 4000-level courses from the departments of Chemistry and Environmental Sciences (subject to the restrictions outlined below) may all be applied to this 4000-level course requirement. Up to 6 of the 33 upper level credits required for majors may be taken from the following two options outside of Biology: 1. Students who complete both CHEM 4410 and CHEM 4420 may apply 4 credits toward the upper-level Biology courses. 2. Courses offered by the Environmental Sciences Department including EVSC 3200/3201 and upper level (4000+) courses that have EVSC 3200 as a prerequisite may count toward the upper level Biology courses. No more than 6 credit hours of any combination of research courses, including 3585, 3950, and 4911-4918, may be awarded toward the Biology major.
 

<input type="checkbox"/> 4000+ COURSE: _____	_____
<input type="checkbox"/> 4000+ COURSE: _____	_____
<input type="checkbox"/> 4000+ COURSE: _____	_____
<input type="checkbox"/> COURSE: _____	_____
<input type="checkbox"/> COURSE: _____	_____
<input type="checkbox"/> COURSE: _____	_____
<input type="checkbox"/> COURSE: _____	_____
  
- D. **GPA Requirement:** The overall GPA for courses presented for the B.S. degree must be at least 2.000. These courses consist of: BIOL 3000, BIOL 3010, BIOL 3020; the two laboratory course requirements; your "best" remaining 3000 level or higher elective BIOL courses up to a total of 33 credit hours

**TOTAL Credits A-C- must be greater than or equal to 33** \_\_\_\_\_

**FOR DETAILED REQUIREMENTS, RESTRICTIONS, TRANSFER CREDIT, AND PETITION INFO, PLEASE SEE THE BIOLOGY WEBSITE**