

# Requirement Checksheet - Biological Sciences Education BA

Effective Catalog Year 2020 and Later

<b>University Requirements</b>	<b>Credits</b>	<b>Course</b>	<b>✓</b>
English 110 (need a C-)	3		
Multicultural Course	3		
First Year Experience	1		
Discovery Learning Experience (Experimental Biology course)	3		
Capstone Experience (only for students entering in Fall 2017 and later)			
Residency: must complete either 90 out of the first 100 credits at UD, or 30 out of the final 36 credits at UD.			

<b>College of A&amp;S Skills Requirements</b>	<b>Credits</b>	<b>Course</b>	<b>✓</b>
Second Writing Course ( <i>min. grade C-; course must be taken after completion of at least 60 college credits to satisfy this requirement; approved courses are <b>section-specific</b></i> )	3		
Foreign Language ( <i>min. grade D-; must complete the intermediate level (107 or 112 or 202 (depending on the language) or higher, or exemption</i> )	0-12		
Math ( <i>min. grade D-; MATH 113, 114, 115 or 117 or a MATH course at the 2xx level or above (but NOT 201, 202, 205, 250, 251, 252, 253, 266, 300, or 450). Or proficiency exam</i> )	3-4	MATH 221 or 241	

<b>University and College of Arts and Sciences Breadth Requirements (combined)</b>	<b>Credits</b>	<b>Course</b>	<b>✓</b>
<i>Min. grade C- in each course (may not be taken pass/fail). University Breadth courses must be taken from <b>four</b> different subject areas. Students in a single major may NOT satisfy these with courses from their major area. Within each breadth group, courses must be from at <b>least two</b> departments.</i>			
<b>Group A: Creative Arts and Humanities</b>			
University Course	3		
College Course	3		
College Course	3		
<b>Group B: History and Cultural Change</b>			
University Course	3		
College Course	3		
College Course	3		
<b>Group C: Social and Behavioral Sciences</b>			
University Course	3		
College Course	3		
College Course	3		
<b>Group D: Mathematics, Natural Sciences, &amp; Technology (Including one lab)</b>			
University Course	4	CHEM 103 or 107	
College Course with lab	4	BISC 207	
College Course	4	BISC 208	

<b>Biology Major Requirements</b>		<b>Credits</b>	<b>Completed?</b>
<b>Biology Courses:</b> Minimum grade C- required in all BISC courses for a total of at least 33 credits in biology. <b>To be eligible to student teach, Biological Sciences Education students must have a GPA of at least 2.75 in the biology major and an overall GPA of at least 2.5.</b>			
<b>Required Core Courses</b>			
BISC 207	Introductory Biology I	4	
BISC 208	Introductory Biology II	4	
BISC 302	General Ecology	3	
BISC 306	General Physiology	3	
BISC 305 BISC 401	Cell Biology <b>or</b> Molecular Biology of the Cell	3	
BISC 403	Genetics	3	
<b>Two Courses in Experimental Biology:</b> The corresponding lecture is a prerequisite. (Lecture and lab can <b>NOT</b> be taken simultaneously.)			
BISC 312 BISC 316	Field Ecology <b>or</b> Experimental Physiology	3	
<b>And</b>			
BISC 315 BISC 411 BISC 413 BISC 484	Experimental Cell Biology <b>or</b> Experimental Molecular Biology <b>or</b> Advanced Genetics Laboratory <b>or</b> Computer Based Genetics Laboratory	3-4	
<b>Literature-based Biology Course:</b> Choose one from approved list (see catalog for current list)		3-4	
<b>Biology Electives:</b> Biology courses at the 300-level or above. Six of the 33 cr. may come from a list of approved courses from other academic units (see catalog for current list). Min. grade of C (not C-) is required for courses from other academic units.			
<b>Related Coursework:</b> Min. grade of D (not D-) is required.			
CHEM 103/133 <b>or</b> CHEM 107		4	
CHEM 104/134 <b>or</b> CHEM 108		4	
CHEM 321/325 <b>or</b> CHEM 213/215, <b>and</b> CHEM 214/216		8	
PHYS 201 <b>or</b> PHYS 207		4	
PHYS 202 <b>or</b> PHYS 208		4	
MATH 221 <b>or</b> MATH 241		3-4	
GEOL 107 General Geology ( <b>only offered in the fall</b> )		4	
Geology Elective		3-4	
<b>Education Courses:</b> Min. grade of C- is required in all required EDUC courses and SCEN 491			
EDUC 400 Student Teaching ( <b>All other degree requirements must be completed before taking EDUC 400, which is only offered in the spring.</b> )		9	
EDUC 413 Adolescent Development and Educational Psychology		3	
EDUC 414 Teaching Exceptional Adolescents		3	
EDUC 419 Diversity in Secondary Education		3	
EDUC 420 Reading in the Content Areas		1	
SCEN 491 Teaching Science in Secondary Schools		4	
<b>Free Electives:</b> sufficient elective credits must be taken to meet the minimum credit requirement for the degree = <b>124 credits</b>			