Requirement Checksheet - Biological Sciences BS

Concentration in Cell and Molecular Biology & Genetics

Effective Catalog Year 2020 and later

University Requirements	Credits	Course	✓
English 110 (need a C-)	3		
Multicultural Course	3		
First Year Experience	1		
Discovery Learning Experience (Experimental Biology course)	3		
Capstone Experience (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.			

Credits

Course

College of A&S Skills Requirements

Second Writing Course (min. grade C-; course must be taken	3		
after completion of at least 60 college credits to satisfy this			
requirement; approved courses are section-specific)			
Foreign Language (min. grade D-; must complete the	0-12		
intermediate level (107 or 112 or 202 (depending on the			
language)or higher or exemption			
Math (min. grade D-; MATH 113, 114, 115 or 117 or a MATH	3-4	MATH 221 or 241	
course at the 2xx level or above (but NOT 201, 202, 205, 250,			
251, 252, 253, 266, 300, or 450). Or proficiency exam			
University and College of Arts and Sciences	Credits	Course	/
University and College of Arts and Sciences	Credits	Course	V
Breadth Requirements (combined)			
Min. grade C- in each course (may not be taken pass/fail). University			
Breadth courses must be taken from four different subject areas.			
Students in a single major may NOT satisfy these with courses from			
their major area. A total of 21 credits from Group A, Group B, and			
Group C is required with a minimum of six credits in each group.			
Group A: Creative Arts and Humanities	2		<u> </u>
University Course	3		
College Course	3		
Group B: History and Cultural Change			<u> </u>
University Course	3		-
College Course	3		
Group C: Social and Behavioral Sciences			_
University Course	3		
College Course	3		
Additional course from Group A, B, or C			
College Course	3		

Biology I	Major Requirements	Credits	Completed?				
Biology Cour	rses: Minimum grade C- required in all BISC courses for a						
total of at le	ast 43 credits in biology						
Required Led	ture Courses: Take all five	<u> </u>					
BISC 207	Introductory Biology I	4					
BISC 208	Introductory Biology II	4					
BISC 305	Cell Biology	3					
BISC 401	Molecular Biology of the Cell	3					
BISC 403	Genetics	3					
Elective Lect	Elective Lecture Courses: Select any 1 of the following 3						
BISC 300	Introduction to Microbiology	4					
BISC 302	General Ecology	3					
BISC 306	General Physiology	3					
prerequisite.	perimental Biology: The corresponding lecture is a (THE LECTURE AND THE LAB CANNOT BE TAKEN	6-7					
	OUSLY). Select 2 of the 7 options:	2					
BISC 312	Field Ecology	3					
BISC 315 BISC 316	Experimental Physicle 97	3					
	Experimental Physiology						
BISC 411	Experimental Molecular Biology	4					
BISC 413	Advanced Genetics Laboratory	3					
BISC 484	Computer Based Genetics Laboratory	3					
BISC 451/452	2 Senior Thesis	6					
or	On Control Theath Con December 1th Distriction	6					
	2 Senior Thesis for Degree with Distinction	6					
	gsed Biology Course: Choose one from approved list for current list); must also be listed in groups A-E below.	3-4					
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Biology Elect	tives from the following groups to total 43 cr.: Must						
	min. of 2 groups (see catalog for courses). Six of the 43						
	may come from a list of approved courses from other						
academic un	its_(min. grade C, not C-).						
Group A. Ge	netics						
Group B. Mo	lecular Biology and Biochemistry						
Group C. Cel	l Biology						
Group D. Phy	ysiology						
Group E. Bio	informatics						
Related Cou	rsework: Min. grade of D (not D-) is required.						
	33 or CHEM 107	4					
CHEM 104/1	34 or CHEM 108	4					
CHEM 321/3	25 and CHEM 322/326	8					
CHEM 527 o	r equivalent	3					
PHYS 201 or	PHYS 207	4					
PHYS 202 or	PHYS 208	4					
MATH 221 o	r MATH 241	3-4					
STAT 200 or		3					
	s: sufficient elective credits must be taken to meet the						
	edit requirement for the degree= 124 credits						
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