

Concord University
BACHELOR OF SCIENCE - Biology
Registrar's Office Official Document

Name: _____

120 hours minimum for graduation with a 2.00 average overall
 56 hours from a four-year institution

2019-2020 Catalog

Course	Title	CR	GR	QP
Written and Oral Communications (9 credit hours) Select one course from BGEN 205 or COMM 101				
ENGL 101	Composition & Rhetoric I	3		
ENGL 102	Composition & Rhetoric II	3		
		3		
Literature and Humanities (6 credit hours) Select one (1) course from Literature and one (1) course from History and Philosophy. *May be repeated for 3 credit hours.				
	ENGL 203, 204, *224 or *225	3		
	HIST 101, 102, 203, 204, PHIL 101, 308, 316, or 361	3		
Fine Arts– (3 credit hours) Select one (1) course from the following:				
	ART 101, 103, 105, 106, 204, 205, 216, 303, 304, 308, MUS 101, *451, *453A, or THEA 102	3		
Social and Behavioral Sciences (9 credit hours) Select one (1) course from three different categories.				
	Category 1 - Business and Professional Studies BGEN 105, ECON 203, ECON 204, FIN 200, RTM 100 or SOWK 161	3		
	Category 2 - Geography GEOG 101, 255 or 321	3		
	Category 3 - Political Science POSC 101, 104, or 202	3		
	Category 4 - Psychology PSY 101 or 200			
	Category 5 – Sociology SOC 101, 201, or 301			
Natural Sciences (7-8 credit hours) Select one (1) course from two different categories.				
BIOL 121	Category 1-Biological Science BIOL 101, 102, 121, or 122	4	See Major	
CHEM 101	Category 2-Earth & Space Science GEOL 101, GEOL 150, GEOG 200, PHSC 104, or PHYS 105	3-4	See Major	
	Category 3-Physical Science CHEM 100, CHEM 101/111, PHSC 103, PHYS 101, or PHYS 201			
Mathematics (3 credit hours) Select one (1) Mathematics course numbered 100 or higher.				
MATH 105		3	See Major	
Physical Wellness (2 credit hours) Select one or more courses listed below for a total of at least two hours.				
	H ED 120, 304, P ED 101M, 117, 118, or RTM 220	2-3		
Modern/Classical Language – (Optional 6 credit hours) Select two courses within the same Modern/Classical Language for substitution purposes.				
	May not substitute Modern Language for ENGL 101, ENGL 102, the 3 hour Mathematics requirement or the 4-hour lab science requirement.			

Biology Core (2.00 GPA required)				
BIOL 121	Foundations of Biology I **	4		
BIOL 122	Foundations of Biology II **	4		
BIOL 130	Freshmen Biology Seminar	1		
BIOL 230	Sophomore Biology Seminar	1		
BIOL 455	Biology Capstone (May substitute BIOL 470 & 471)	2		
CHEM 101	General Chemistry I	3		
CHEM 111	General Chemistry Lab I	1		
CHEM 102	General Chemistry II	3		
CHEM 112	General Chemistry Lab II	1		
MATH 105	Elementary Statistics	3		
PHYS 101 or PHYS 201	Introduction to Physics or University Physics w/Calculus 1	4		
PHYS 102 or PHYS 202	Intermediate Physics or University Physics w/Calculus 2	4		
Biology Cognate				
BIOL 201 or BIOL 369	Ecology and Field Methods or Evolution	4		
BIOL 202 or BIOL 301	Animals as Organisms or Plants as Organisms	4		
BIOL 302 or BIOL 401	Cell and Molecular Biology or Genetics	4		

Students must select ONE of the concentrations on the following page

***NOTE:** The same course cannot be used in multiple categories for credit. N SC 325 may be used only once to fulfill major or minor credit. One (1) BIOL 101 or 102 may be used as Directed Electives. Students who have qualified for BIOL 121 credit previously are exempt from BIOL 130.

MATH 103 and/or MATH 104 are prerequisites to some required courses in the Biology (Molecular) major.

RESIDENCE CREDIT:

36 hours at Concord

16 of last 32 hours at Concord

Note: In some degree programs, this is prior to entering professional training.

9 hours in Major, Teaching Fields

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Molecular Emphasis				
BIOL 302 or BIOL 401	Cell and Molecular Biology* or Genetics*	4		
CHEM 331	Organic Chemistry I	4		
CHEM 341 and CHEM 347	Biochemistry and Biochemistry Lab	3 1		
	Directed Electives (20 hours)* 200 level or above			
	12 hours from BIOL 8 hours from BIOL, CHEM, CS, GEOL, MATH, N SC, or PHYS			
	One (1) BIOL 101 or BIOL 102 may be used as Directed Electives.			

Pre-PA-PT Emphasis				
BIOL 329	Microbiology	4		
BIOL 335	Human Anatomy & Physiology I	4		
BIOL 336	Human Anatomy & Physiology II	4		
BIOL 350	Biology Shadowing/Internship	2		
	Directed Electives (18 hours)*			
	200 level or above in AT, BIOL, CHEM, CS, H ED, PHYS or MATH			
	300 level or above in EXSS			
	One (1) BIOL 101 or BIOL 102 may be used as Directed Electives.			

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Organismal and Field Emphasis				
BIOL 201 or BIOL 202 or BIOL 301 or BIOL 369	Ecology and Field Methods* or Animals as Organisms* or Plants as Organisms or Evolution	4		
	Choose 2 of the following courses: BIOL 202, BIOL 231, BIOL 233, BIOL 265, BIOL 301, BIOL 315, or BIOL 329	3/4 3/4		
	Directed Electives (20 hours)* 200 level or above			
	12 hours from BIOL 8 hours from AT, BIOL, CHEM, CS, EXSS, GEOL, H ED, MATH, N SC, PHYS			
	One (1) BIOL 101 or BIOL 102 may be used as Directed Electives.			

NOTE: Students are recommended to take BIOL 202: Animals as Organisms; BIOL 301: Plants as organisms; and BIOL 329: Microbiology.