# 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

			GR	QP
	ral Communications (9 credit hours) Select o	ne cou	rse fr	om
BGEN 205 or COMM 101				
ENGL 101	Composition & Rhetoric I	3		
ENGL 102	Composition & Rhetoric II	3		
COMM 101	Fundamentals of Speech	2		
or BGEN 205	or Fundamentals of Business Communication	3		
	Humanities (6 credit hours) Select one (1) co			
Literature and repeated for 3	one (1) course from History and Philosophy. credit hours.	*May	, be	
	<b>ENGL</b> 203 or 204	3		
	<b>HIST</b> 101, 102, 203, 204, <b>PHIL</b> 101, 308, 316, or 361	3		
Fine Arts- (3	credit hours) Select one (1) course from the fo	ollowir	ıg:	
	<b>ART</b> 101, 103, 105, 106, 204, 205, 216, 303, 304, 308, <b>MUS</b> 101, *451, *453A, or <b>THEA</b> 102	3		
	havioral Sciences (9 credit hours) Select one (	(1) cou	rse fr	om
three different	categories. Category 1 - Business and Professional	1	<u> </u>	r -
	Studies	3		
	BGEN 105, ECON 203, ECON 204, FIN 200, HSP 100 or SOWK 161	3		
	Category 2 - Geography GEOG 101 or 221	3		
	Category 3 - Political Science POSC 101, 104, or 202			
	Category 4 - Psychology			
	PSY 101 or 200 <u>Category 5 – Sociology</u> SOC 101, 201, or 301			
Natural Science categories.	ces (7-8 credit hours) Select one (1) course fro	om two	diffe	rent
-	Category 1-Biological Science	1	Se	e
BIOL 121	BIOL 101, 102, 121, or 122	4	-	ajor
CHEM 101	Category 2-Earth & Space Science GEOL 101, GEOL 140 or 150,	3-4	Se	e ajor
	GEOG 200,	_		5
	PHSC 104, or PHYS 105			
	Category 3-Physical Science			
	CHEM 100, CHEM 101/111, PHSC 103,			
	PHYS 101, or PHYS 201			
Mathematics ( 100 or higher.	3 credit hours) Select one (1) Mathematics co	ourse n	umbe	red
MATH 105	Elementary Statistics	3	Se M	e ajor
Physical Wellness (2 credit hours) Select one or more courses listed below for a total of at least two hours.				5
	<b>H ED</b> 120, 304, <b>P ED</b> 101M, 117 or 118	2-3		
Modern/Classical Language – (Optional 6 credit hours) Select two courses within the same Modern/Classical Language for substitution purposes.				
within the sam	May not substitute Modern Language for	<i>i purpe</i>	ises.	1
	ENGL 101, ENGL 102, the 3 hour	1		
	Mathematics requirement or the 4-hour lab			
	science requirement.			

2023-2024 Catalog

Biology Core (2.00 GPA required) 31-41 credit hours				
	<b>Biology (12-16 credit hours)</b>			
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 (3) & 471(3)	2 or 6		
	<u>Chemistry (8 credit hours)</u>			
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		
	Mathematics (3-9 credit hours)			
MATH 105	Elementary Statistics •MATH 103/MATH 104/MATH 253 or equivalent proficiency may be required for physics)	3		
	Physics (8 credit hours)			
PHYS 101 and PHYS 102 or	Introductory Physics and Intermediate Physics or	4		
PHYS 201 and PHYS 202	University Physics w/ Calculus 1 and University Physics w/ Calculus 2	4		
Biology Cogn	ate (11-12 credit hours)	_		
BIOL 201 or BIOL 369	Ecology and Field Methods (4) or Evolution (3)	3-4		
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 <u>ONE</u> of the concentrations on the following page

\*NOTE: The same course cannot be used in multiple categories for credit. BIOL 326 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.

*^Biology majors must complete with a "C" or better to enroll in 200 level or higher Biology courses.* 

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

Biomedical Sciences Emphasis (31-35 credit hours)				
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		
	<ul> <li>Directed Electives (20 hours) * <ul> <li>12 hours from BIOL (200 level or higher)</li> <li>8 hours from the following: BIOL, CHEM, GEOL, MATH (200 level or higher), EXSS, PHYS (300 level or higher), CS, H ED (303, 304, 305, or 415), HS (201 or 301), PHSC 219, PSY (221, 229, 302, 331, 335, 365, 377 or 432)</li> </ul> </li> </ul>			

Organismal	Organismal and Field Emphasis (31-37 credit hours)			
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	3-4		
	Choose 2 of the following courses: • BIOL 202, BIOL 231, BIOL 233, BIOL 265, BIOL 301, BIOL 315, or BIOL 329	3-4 4		
	<ul> <li>Directed Electives (20 hours) *</li> <li>12 hours from BIOL (200 level or higher)</li> <li>8 hours from the following: BIOL, CHEM, GEOL, MATH (200 level or higher), EXSS, PHYS (300 level or higher), CS, H ED (303, 304, 305, or 415), HS (201 or 301), PHSC 219, PSY (221, 229, 302, 331, 335, 365, 377 or 432)</li> </ul>			

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

Pre-PA-PT	Pre-PA-PT Emphasis (31-35 credit hours)				
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) * • Choose from the following: BIOL, CHEM, GEOL, MATH (200 level or higher), EXSS, PHYS (300 level or higher), CS, H ED (303, 304, 305, or 415), HS (201 or 301), PHSC 219, PSY (221, 229, 302, 331, 335, 365, 377 or 432)				

\*NOTE: The same course cannot be used in multiple categories for credit. BIOL 326 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.

#### **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

TOTAL MINIMUM REQUIRED CREDITS: 120 GENERAL EDUCATION CREDITS: 39-41 PROGRAM REQUIREMENTS: 73-90 ELECTIVE CREDITS: 0-8