Concord University BACHELOR OF SCIENCE - Biology

Registrar's Office Official Document

Name: 120 hours minimum for graduation with a 2.00 average overall

2022-2023 Catalog **Biology Core** (2.00 GPA required)

	n a four-year institution	,00,11	DIGII	
		CR	GR	OP
	ral Communications (9 credit hours) Select of	_		_
BGEN 205 or				
ENGL 101	Composition & Rhetoric I	3		
ENGL 101	Composition & Knetone i	3		
ENGL 102	Composition & Rhetoric II	3		
COMM 101	Fundamentals of Speech			
or	or	3		
BGEN 205	Fundamentals of Business Communication		6	
	Humanities (6 credit hours) Select one (1) co one (1) course from History and Philosophy.			
repeated for 3		wiu	iy ve	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ENGL 203 or 204	3		
		-	-	
	HIST 101, 102, 203, 204, PHIL 101, 308,	3		
	316, or 361			
Fine Arts– (3 a	credit hours) Select one (1) course from the f	ollowi	ing:	
	ART 101, 103, 105, 106, 204, 205, 216,			
	303, 304, 308, MUS 101, *451, *453A, or	3		
g : 1 1D 1	THEA 102	(7)		
three different	navioral Sciences (9 credit hours) Select one ((1) coi	urse fr	om
in ce agjerent	Category 1 - Business and Professional		I	
	Studies	3		
	BGEN 105, ECON 203, ECON 204,			
	FIN 200, HSP 100 or SOWK 161	3		
	Category 2 - Geography	_		
	GEOG 101 or 321 Category 3 - Political Science	3		
	POSC 101, 104, or 202			
	Category 4 - Psychology			
	PSY 101 or 200			
	Category 5 – Sociology			
Natural Science	SOC 101, 201, or 301 ces (7-8 credit hours) Select one (1) course from	om tw	o diffo	ront
categories.	ics (7-0 creati nours) select one (1) course fro	JIII LVV	o uijje	eni
	Category 1-Biological Science	T	Se	e
BIOL 121	BIOL 101, 102, 121, or 122	4		ajor
CHEM 101	Category 2-Earth & Space Science		Se	e
CHEWI 101	GEOL 101, GEOL 140 or 150,	3-4	l M	ajor
	GEOG 200, PHSC 104, or			
	PHYS 105			
	Category 3-Physical Science			
	CHEM 100, CHEM 101/111,			
	PHSC 103,			
	PHYS 101, or PHYS 201			
Mathematics (3 credit hours) Select one (1) Mathematics co	ourse i	numbe	red
) (1 / Try 1 0 -	Til de Greit i		Se	ee
MATH 105	Elementary Statistics	3	M	ajor
Physical Wells	ness (2 credit hours) Select one or more cours	ses lis	ted bei	low
for a total of a	t least two hours.			
	H ED 120, 304, P ED 101M, 117 or 118	2-3	3	
			\perp	
	cal Language – (Optional 6 credit hours) Selve e Modern/Classical Language for substitution			ses
	May not substitute Modern Language for			
	ENGL 101, ENGL 102, the 3 hour			
1	Mathematics requirement or the 4-hour lab science requirement.			
<u> </u>	serence requirement.			1

31-41 credit hours				
Biology (12-16 credit hours)				
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		
	Chemistry (8 credit hours)			
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	MATH 103/MATH 104/MATH 253 or equivalent proficiency may be required for physics)	3		
	Physics (8 credit hours)			
PHYS 101 And PHYS 102	Introductory Physics And Intermediate Physics	4		
PHYS 201 And PHYS 202	University Physics w/ Calculus 1 And University Physics w/ Calculus 2	4		
	Biology Cognate (11-12 credit hours)			
BIOL 201	Ecology and Field Methods (4)			
or BIOL 369	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 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.

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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	Biochemistry and	3		
CHEM 347	Biochemistry Lab	1		
	Directed Electives (20 hours) * • 12 hours from BIOL (200 level or higher) • 8 hours from the following: BIOL, CHEM, GEOL, MATH (200 level or higher), CS, EXSS, PHYS (300 level or higher), H ED (303, 304, 305, or 415), HS (201 or 301), PHSC 219, PSY (221, 229, 302, 331, 335, 365, 377 or 432)	3-4		
		3-4		
		3-4		
		3-4		
		4		
		4		

Organismal and Field Emphasis (31-37credit hours)				
BIOL 201 or BIOL 202	Ecology and Field Methods* or Animals as Organisms*			
or BIOL 301 or BIOL 369	or Plants as Organisms or Evolution	3-4		
	Choose 2 of the following courses: • BIOL 202, BIOL 231, BIOL	3-4		
	233, BIOL 265, BIOL 301, BIOL 315, or BIOL 329	3-4		
	Directed Electives (20 hours) * 200 level or above	3-4		
	 12 hours from BIOL (200 level or higher) 	3-4		
	8 hours from the following: BIOL, CHEM, GEOL, MATH			
	(200 level or higher), CS, EXSS, PHYS (300 level or	3-4		
	higher), H ED (303, 304, 305,	3-4		
	or 415), HS (201 or 301), PHSC 219, PSY (221, 229, 302, 331, 335, 365, 377 or 432)	3-4		

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

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), CS, EXSS, PHYS (300 level or higher), H ED (303, 304, 305, or 415), HS (201 or 301), PHSC 219, PSY (221, 229, 302, 331, 335, 365, 377 or 432)			

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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 ELECTIVE CREDITS: 0-8