

## College of Science Bachelor of Science in Neuroscience For Students Graduating in 2019

Major: Cognitive and Behavioral Neuroscience

Curriculu	um for Libe	ral Education (CLE) R	Requir	rem	ents (3	3 credits)						
Area 1:	Writing an	nd Discourse										
			(3)	(	)	<u></u>				(3)	(	)
Area 2:	a 2: Ideas, Cultural Traditions and V			S								
			_ (3)	(	)					(3)	(	)
Area 3:	: Society and Human Behavior											
			_ (3)	(	)					(3)	(	)
Area 4:	BIOL 1105 Principles of Biology			,		DIOI 4465	Data at La	ť D.	.1	(2)	,	
				(3) ( ) BIOL 1106 Principles of Biology (1) ( ) BIOL 1116 Principles of Biol. Lab					(3)	(	)	
	BIOL 1115	Principles of Biol. Lab	(1)	(	)	BIOL 1116	Principles of	rBio	oi. Lab	(1)	(	)
	0	in and Combalia Da										
Area 5:	rea 5: Quantitative and Symbolic Reas MATH 1025 Elementary Calculus				1	MATH 1024	MATH 1026 Elementary Calculus			(2)	,	١
	IVIATH 102:	5 Elementary Calculus	(3)	(	)	WATH 1020	o Elementary	Cai	cuius	(3)	(	)
Area 6:	Croative	and Aasthatic Evacris	nco			Area 7:	Critical Issu	100	in Glob	al Con	tevt	
Area 6.	Creative a	and Aesthetic Experie					Cittical issu	162	III GIODA	(3)	1	١
			_ (3)	(	)			-		(3)	(	,
Core Ne	uroscience	Requirements (21 C	redits	1:								
Core Neuroscience Requirements (21 Cro CHEM 1035-1036 General Chemistry			23163				(3)	(	)	(3)	(	)
NEUR 1004 Neuroscience Orie			ntatio	n Se	eminar		(-)	`	,	(1)	ì	)
		Introduction to Ne					(3)	(	)	(3)	ì	)
		Neuroscience Labo					(1)	ì	)	(1)	į	)
NEUR 4044 Neuroscience Senic				ar				•	(3)	(	)	
PSYC 1004 Introductory Psych		ology	,						(3)	(	)	
		,	0,									
Cognitiv	e and Beha	vioral Neuroscience	Majo	or Re	equiren	nents (24 Ci	redits)					
NEUR 30	084	Cognitive Neurosci	ence							(3)	(	)
NEUR 3144		Mechanism of Learning and Memory						(3)	(	)		
NEUR 4084 Developr		Developmental Cog	pmental Cognitive Neuroscience							(3)	(	)
PSYC 1094 Principles of Psycho			ologic	al R	esearch	1				(3)	(	)
PSYC 2044 Psychology of Learn			ning							(3)	(	)
PSYC 4114 Cognitive Psycholog			gy							(3)	(	)
STAT 3615-3616 Biological Statistics							(3)	(	)	(3)	(	)
Doctrict	ivo Electivo	s (12 Credits)										
		redit hours are requir	ed fro	om t	he list h	pelow. At lea	ast two cou	rse	s must h	e at t	he	
	-	care nours are requir	cujic	,,,,,	ine iist k	CIOW. ALIEC	.50 000			2 41 1		
3000/4000 level.  *ALS 2304 Comparative Anima				vsiol	logy and	d Anatomy				(4)	(	)
#ALS/BIOL 4554 Neurochemical Reg					- 51 WIN					(3)	(	)
*BCHM 2024 Concepts of Bioche										(3)	(	)
#BCHM 3114 Biochemistry for Bi				-	ogv					(3)	(	)
#BIOL 2004 Genetics			. 5 ( )		-61					(3)	(	)
#BIOL 2104 Cell & Molecular B			iology	,						(3)	ì	)

<sup>#</sup> BIOL 3404	Introductory Animal Physiology				(3)	,	١
*BIOL 4824 Bioinformatics Methods					(3)	(	1
CHEM 1045-1046 General Chemistry Laboratory					(1)	(	1
*CHEM 2514 Survey of Organic Chemistry				)	(3)	(	١
#CHEM 2535-2536	,				(3)	(	)
#CHEM 2545-2546	Organic Chemistry Lab	(3) (1)	ì	)	(1)	(	)
#CHEM 4554	Drug Chemistry	(1)	'	, ,	(3)	(	)
*CHEM 4615-4616					(3)	(	)
*NEUR 3044 Cellular and Molecular Neuroscience					(3)	ì	)
*NEUR 3064 Educational Neuroscience					(3)	ì	)
NEUR 3464	EUR 3464 Neuroscience and Society					ì	)
*NEUR 3554 Neuroscience Research and Practical Experience					(3) (3)	ì	)
<sup>#</sup> NEUR 4034	Diseases of the Nervous System				(3)	ì	)
*NEUR 4454 Neuroeconomics					(3)	ì	)
<sup>#</sup> NEUR 4544	Synaptic Structure and Function				(3)	ì	)
<sup>#</sup> NEUR 4594	Clinical Neuroscience in Practice				(3)	ì	)
NEUR 4994	Undergraduate Research				(3)	ì	)
PHYS 2205-2206	206 General Physics				(3)	ì	)
PHYS 2215-2216 General Physics Lab				)	(1)	ì	)
<sup>#</sup> PHYS 4714	Introduction to Biophysics	(1)	•	,	(3)	ì	)
*PSYC 4044	Advanced Learning				(3)	ì	)
<sup>#</sup> PSYC 4064	Physiological Psychology				(3)	į	)
*PSYC 4074 Sensation and Perception						į	)
<sup>#</sup> STAT 3424	Introduction to Statistical Neuroscience and Image Analysis (3)						
*STAT 4204	Experimental Designs (3)						
Free Electives (25 C	redits)						
	(cr)					(_ c	r)
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**Foreign Language Requirement:** In order to graduate, students must meet a language study requirement. The College of Science requires three units of a single foreign or classical language (or American Sign Language) during high school or the second semester of a college-level foreign or classical language (or American Sign Language). These credit hours do not count toward the total minimum hours required for the declared degree program.

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\*Prerequisites: This check sheet contains courses that have at least one prerequisite that may not be included as part of this degree. Please see your advisor or consult the Undergraduate Course Catalog for more information.

## **Acceptable Substitutions:**

BIOL 1105: BIOL 1005 General Biology BIOL 1106: BIOL 1006 General Biology BIOL 1115: BIOL 1015 General Biology Lab BIOL 1116: BIOL 1016 General Biology Lab

CHEM 1035-1036: CHEM 1055-1056 General Chemistry for Majors CHEM 1045-1046: CHEM 1065-1066 General Chemistry Lab for Majors



MATH 1025-1026: MATH 1225-1226 Calculus of a Single Variable

PHYS 2205, 2215: PHYS 2305 Foundations of Physics I PHYS 2206, 2216: PHYS 2306 Foundations of Physics I

**Progress Towards Degree Policy:** After attempting 72 credits, students must have completed BIOL 1105, 1106, 1115, 1116, CHEM 1035-1036, NEUR 2025-2026 and 2035-2036; have a minimum overall GPA of 2.5; and have completed at least 24 credits that apply to the University Curriculum for Liberal Education requirements.

**Graduation Requirements**: Student must complete a minimum of 120 credit hours with an overall GPA of 2.0 and a minimum in-major GPA of 2.0. For purposes of GPA computation, courses IN-MAJOR will include BIOL 1105, 1106, 1115, 1116, MATH 1025-1026, Core requirements, Major requirements, and Restricted Electives.