

## College of Science Bachelor of Science in Neuroscience For Students Graduating in 2019 Major: Experimental Neuroscience

Curriculu	ım for Libe	eral Education (CLE) F	<b>Requir</b>	rem	ents (38	credits)				10 30		
Area 1:	a 1: Writing and Discourse											
			_ (3)	(	)					(3)	(	)
Area 2:	ldeas, Cul	ltural Traditions and '		S								
			_ (3)	(	)					_ (3)	(	)
Area 3:	Society ar	nd Human Behavior										
Alca 5.	Jociety at	id Halliali Bellavioi	(3)	1	١					(3)	,	١
,			_ (3)	'	, ,					_ (3)	(	,
Area 4:	Scientific	Reasoning and Disco	very									
	BIOL 1105 Principles of Biology		(3)	(	)	BIOL 1106	Principles	of B	iology	(3)	(	)
,	BIOL 1115 Principles of Biol. Lab		(1)	(	)		Principles			(1)	Ì	)
Area 5:	,											
	MATH 1025	5 Elementary Calculus	(3)	(	)	MATH 102	6 Elementa	ry Ca	lculus	(3)	(	)
Area 6:	Creative	and Aesthetic Evneric	nco			Area 7:	Critical Is		a in Cla	hal Ca		
Alea o.	Creative and Aesthetic Experien			(	)						ntex	Χť
			_ (3)	, (	,					_ (3)	(	)
Core Neu	ıroscience	Requirements (21 Ca	redits	)								
CHEM 10		General Chemistry					(3)	(	)	(3)	(	)
NEUR 1004		Neuroscience Orier	ntatio	n Se	minar			·	•	(1)	į	)
NEUR 2025-2026		Introduction to Neuroscience (3) ( )						(3)	ì	)		
NEUR 2035-2036		Neuroscience Labo	ratory	/			(1)	i	)	(1)	ì	)
NEUR 4044		Neuroscience Senio			r		( )	`	,	(3)	ì	í
PSYC 100	)4	Introductory Psych	ology							(3)	ì	)
×,										, , , ,	•	,
Experime	ental Neur	oscience Major Requ	ireme	ents	(28 Cre	dits)						
CHEM 10	45-1046	General Chemistry	Lab				(1)	(	)	(1)	(	)
NEUR 30	44	Cellular and Molect	ılar N	eur	oscience					(3)	(	)
NEUR 30	84	Cognitive Neuroscie	ence							(3)	(	)
NEUR 31	44	Mechanism of Lear	ning a	nd	Memory					(3)	(	)
NEUR 35	54	Neuroscience Resea	arch a	nd I	Practical	Experience	9			(3)	(	)
PHYS 220	5-2206	<b>General Physics</b>					(3)	(	)	(3)	į	)
PHYS 221	5-2216	General Physics Lab	)				(1)	i	)	(1)	ì	)
STAT 361	5-3616	Biological Statistics					(3)	ì	)	(3)	ì	)
									•		,	
		s (12 Credits)							35.			
		edit hours are require	ed froi	m th	ne list be	low. At leas	st two cou	rses	must k	e at t	he	
3000/400												
*ALS 2304 Comparative Anima			-		ogy and A	Anatomy				(4)	(	)
#ALS/BIO		Neurochemical Reg								(3)	(	)
#BCHM 2		Concepts of Bioche								(3)	(	)
#BCHM 3		Biochemistry for Bio	otech	nolo	ogy					(3)	(	)
<sup>#</sup> BIOL 200	)4	Genetics								(3)	(	)

<sup>#</sup> BIOL 2104	Cell & Molecular Biology		(3)	(	)
<sup>#</sup> BIOL 3404	Introductory Animal Physiology		(3)	ì	)
<sup>#</sup> BIOL 4824	Bioinformatics Methods		(3)	ì	)
*CHEM 2514	Survey of Organic Chemistry		(3)	ì	)
*CHEM 2535-2536	Organic Chemistry	(3) (	) (3)	ì	)
*CHEM 2545-2546	Organic Chemistry Lab	(1) (	) (1)	ì	)
<sup>#</sup> CHEM 4554	Drug Chemistry	ν-, ν	(3)	ì	)
<sup>#</sup> CHEM 4615-4616	Physical Chemistry for the Life Sciences	(3) (	) (3)	ì	í
*NEUR 3064	Educational Neuroscience	(-) ( )	(3)	ì	)
NEUR 3464	Neuroscience and Society		(3)	ì	)
<sup>#</sup> NEUR 4034	Diseases of the Nervous System		(3)	ì	)
<sup>#</sup> NEUR 4084	Developmental Cognitive Neuroscience		(3)	ì	)
<sup>#</sup> 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)	ĺ	)
<sup>#</sup> PHYS 4714	Introduction to Biophysics		(3)	ì	)
*PSYC 2044	Psychology of Learning		(3)	ĺ	)
*PSYC 2064	Nervous Systems and Behavior		(3)	ì	)
*PSYC 4044	Advanced Learning		(3)	ĺ	)
*PSYC 4114	Cognitive Psychology		(3)	ì	)
<sup>#</sup> PSYC 4064	Physiological Psychology		(3)	ì	)
*PSYC 4074	Sensation and Perception		(3)	ì	)
#STAT 3424	Introduction to Statistical Neuroscience and Image Analysis				
*STAT 4204	(3) (3)	ì	)		
			. ,	•	,
Free Electives (21 (					
	(cr)			(c	cr)
	( <u></u> cr)			(c	r)
	(cr)			(c	r)
	( <u></u> cr)			( c	r)

**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.

**\*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 and 1045-1046, 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.