College of Science Bachelor of Science in Neuroscience For Students Graduating in Spring 2018 Major: Computational and Systems Neuroscience

		ral Education (CLE) Re	quire	eme	nts (40	credits)						
Area 1:	Writing ar	nd Discourse										
			(3)	()					_ (3)	()
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Area 2:	Ideas, Cultural Traditions and Va											
			(3)	()					_ (3)	()
Area 3:	Society an	nd Human Behavior										
			(3)	()					(3)	()
Area 4:	Scientific Reasoning and Discove											
		Principles of Biology	(3)	()	BIOL 1106	Principles o	f Bio	ology	(3)	()
	BIOL 1115	Principles of Biol. Lab	(1)	()	BIOL 1116	Principles o	f Bio	ol. Lab	(1)	()
Area 5:		ive and Symbolic Reas	oning	5								
	MATH 1225	Calculus of Single Var.	(4)	()	MATH 122	6 Calculus of	f Sin	gle Var.	(4)	()
Area 6:	6: Creative and Aesthetic Experience Area 7: Critical Issues in Glo							bal Cor	ntex	t		
		e e e e e e e e e e e e e e e e e e e	(3)	()					(3)	()
Core Ne	uroscience	Requirements (21 Cre	dits)									
CHEM 10	35-1036	General Chemistry					(3)	()	(3)	()
NEUR 1004 Neuroscience Orienta		ation	Ser	ninar					(1)	()	
NEUR 2025-2026 Introduction to Neur		oscie	nce			(3)	()	(3)	()	
NEUR 2035-2036 Neuroscience Labora		atory				(1)	()	(1)	()	
NEUR 4044 Neuroscience Senior		Semi	inar						(3)	()	
PSYC 1004 Introductory Psychological Psychol		logy							(3)	()	
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Computa	ational and	Systems Neuroscieno	е Ма	jor	Requi	rements (2:	3 Credits)					
CS 1114		Introduction to Soft	ware l	Desi	gn			*************		(3)	()
NEUR 4544 Synaptic Structure		nd Fu	ncti	on					(3)	()	
NEUR 4454 Neuroeconomics									(3)	()	
PHYS 2305-2306 Foundations of Physic			ics I				(4)	()	(4)	ì)
STAT 3005-3006 Statistical Methods							(3)	()	(3)	į)
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Restricti	ve Electives	s (12 Credits)										
		edit hours are required	d fron	n th	e list b	elow. At lea	ist two cou	rses	s must l	be at th	 1e	
3000/40		•										
#ALS 230								(4)	()		
*ALS/BIOL 4554 Neurochemical Regu			•			•				(3)	()
#BIOL 2004 Genetics										(3)	()
*BIOL 2104 Cell & Molecular Biol			logy							(3)	()

#BIOL 3404	Introductory Animal Physiology		(3)	()	
#BIOL 4824	Bioinformatics Methods		(3)	()	
#BMES 2104					
#BMES 3134					
CHEM 1045-1046	General Chemistry Lab	(1) () (1)	()	
#CHEM 2535-2536	Organic Chemistry	(3) () (3)	()	
#CHEM 2545-2546	Organic Chemistry Lab) (1)	()	
*CHEM 4554	Drug Chemistry		(3)	()	
#CHEM 4615-4616	Physical Chemistry for the Life Sciences	(3) () (3)	()	
#CS 3724	Introduction to Human-Computer Interaction		(3)	()	
#CS 3824	Intro to Computational Biology & Informatics		(3)	()	
#CS 4804	Introduction to Artificial Intelligence		(3)	()	
*NEUR 3044	Cellular and Molecular Neuroscience		(3)	()	
*NEUR 3064	Educational Neuroscience		(3)	()	
*NEUR 3084	Cognitive Neuroscience		(3)	()	
*NEUR 3144	Mechanism of Learning and Memory		(3)	()	
NEUR 3464	Neuroscience and Society		(3)	()	
*NEUR 3554	Neuroscience Research and Practical Experience		(3)	()	
*NEUR 4034	Diseases of the Nervous System		(3)	()	
*NEUR 4084	Developmental Cognitive Neuroscience		(3)	()	
NEUR 4994	Undergraduate Research		(3)	()	
*PHYS 2504	Math Methods in Physics		(3)	()	
*PHYS 3314	Intermediate Laboratory		(3)	()	
*PHYS 3405-3406	Intermediate Electricity and Magnetism	(3) () (3)	()	
*PHYS 3704	Thermal Physics		(3)	()	
*PHYS 4315	Modern Experimental Physics		(3)	()	
*PHYS 4714	Introduction to Biophysics		(3)	()	
*PSYC 2044	Psychology of Learning		(3)	()	
*PSYC 2064	Nervous Systems and Behavior		(3)	()	
*PSYC 4044	Advanced Learning		(3)	()	
*PSYC 4114	Cognitive Psychology		(3)	()	
*PSYC 4064	Physiological Psychology		(3)	()	
#PSYC 4074	Sensation and Perception		(3)	()	
#STAT 3424	Introduction to Statistical Neuroscience and Imag	e Analysis	(3)	()	
#STAT 4204	Experimental Designs		(3)	()	
*SYSB 2025-2026	Introduction to Systems Biology	(3) () (3)	()	
Free Electives (24 0	Credits)				
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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.

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

Progress Towards Degree Policy: Upon the completion of 72 credits, NEUR students must have completed CHEM 1036 and 1046, BIOL 1106 and 1116, and NEUR 2025 and 2026; have a minimum overall GPA of 2.0; and have completed at least 24 credits that apply to the University Curriculum for Liberal Education requirements.

Graduation Requirements: Students 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 CORE and MAJOR REQUIREMENTS and RESTRICTED ELECTIVES.