## College of Science Bachelor of Science in Neuroscience For Students Graduating in Spring 2018

**Major: Cognitive and Behavioral Neuroscience** 

Area 2:   Ideas, Cultural Traditions and Values		Curriculu	ım for Liber	al Education (CLE) R	equir	eme	ents (3	8 credits)				100		
Area 2: Ideas, Cultural Traditions and Values  (3) () (3) ()  Area 3: Society and Human Behavior  (3) () (3) ()  Area 4: Scientific Reasoning and Discovery BIOL 1105 Principles of Biology (3) () BIOL 1106 Principles of Biology (3) () BIOL 1115 Principles of Biology (3) () BIOL 1116 Principles of Biology (3) () BIOL 1115 Principles of Biol. lab (1) () BIOL 1116 Principles of Biol. Lab (1) ()  Area 5: Quantitative and Symbolic Reasoning MATH 1025 Elementary Calculus (3) () MATH 1026 Elementary Calculus (3) ()  Area 6: Creative and Aesthetic Experience (3) () MATH 1026 Elementary Calculus (3) ()  Core Neuroscience Requirements (21 Credits)  CHEM 1035-1036 General Chemistry (3) () (3) ()  NEUR 1004 Neuroscience Orientation Seminar (1) ()  NEUR 2025-2026 Introduction to Neuroscience (3) () (3) ()  NEUR 2025-2026 Neuroscience Laboratory (1) () (1) (1) ()  NEUR 2035-2036 Neuroscience Senior Seminar (3) () ()  PSYC 1004 Introductory Psychology (3) ()  Cognitive and Behavioral Neuroscience Major Requirements (24 Credits)  NEUR 3084 Cognitive Neuroscience Major Requirements (24 Credits)  NEUR 3084 Cognitive Neuroscience (3) () () ()  NEUR 3084 Developmental Cognitive Neuroscience (3) () () ()  PSYC 2044 Psychology of Learning and Memory (3) () ()  PSYC 1094 Principles of Psychological Research (3) () ()  PSYC 2044 Psychology of Learning (3) () ()  PSYC 2045 Psychology of Learning (3) () ()  PSYC 2046 Psychology of Learning (3) () () ()  PSYC 2047 Psychology of Learning (3) () () ()  PSYC 2048 Psychology of														
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CHEM 1035-1036         General Chemistry         (3) ( )         (3) ( )           NEUR 1004         Neuroscience Orientation Seminar         (1) ( )           NEUR 2025-2026         Introduction to Neuroscience         (3) ( )         (3) ( )           NEUR 2035-2036         Neuroscience Laboratory         (1) ( )         (1) ( )         (1) ( )           NEUR 4044         Neuroscience Senior Seminar         (3) ( )         (3) ( )           PSYC 1004         Introductory Psychology         (3) ( )           Cognitive and Behavioral Neuroscience Major Requirements (24 Credits)           NEUR 3084         Cognitive Neuroscience           NEUR 3144         Mechanism of Learning and Memory         (3) ( )           NEUR 4084         Developmental Cognitive Neuroscience         (3) ( )           PSYC 1094         Principles of Psychological Research         (3) ( )           PSYC 2044         Psychology of Learning         (3) ( )           PSYC 4114         Cognitive Psychology         (3) ( )           STAT 3615-3616         Biological Statistics         (3) ( )           Restrictive Electives (12 Credits)           A minimum of 12 credit hours are required from the list below. At least two courses must be at the 3000/4000 level.           "ALS 2304         Com					_ (3)	(	)					_ (3)	(	)
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NEUR 4044 Neuroscience Senior Seminar (3) ( ) PSYC 1004 Introductory Psychology (3) ( )  Cognitive and Behavioral Neuroscience Major Requirements (24 Credits)  NEUR 3084 Cognitive Neuroscience (3) ( ) NEUR 3144 Mechanism of Learning and Memory (3) ( ) NEUR 4084 Developmental Cognitive Neuroscience (3) ( ) PSYC 1094 Principles of Psychological Research (3) ( ) PSYC 2044 Psychology of Learning (3) ( ) PSYC 4114 Cognitive Psychology (3) ( ) STAT 3615-3616 Biological Statistics (3) ( ) (3) ( )  Restrictive Electives (12 Credits)  A minimum of 12 credit hours are required from the list below. At least two courses must be at the 3000/4000 level.  #ALS 2304 Comparative Animal Physiology and Anatomy (4) ( ) #ALS/BIOL 4554 Neurochemical Regulation (3) ( ) #BCHM 2024 Concepts of Biochemistry (3) ( ) #BCHM 3114 Biochemistry for Biotechnology (3) ( ) #BIOL 2004 Genetics (3) ( )							e			(	)		(	)
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## APPROVED COMMISSION ON UNDERGRADUATE STUDIES AND POLICIES

#					(2)		,
#BIOL 3404	Introductory Animal Physiology				(3)	(	)
#BIOL 4824	Bioinformatics Methods				(3)	(	)
CHEM 1045-1046	General Chemistry Laboratory	(1)	(	)	(1)	(	)
#CHEM 2514	Survey of Organic Chemistry				(3)	(	)
#CHEM 2535-2536	Organic Chemistry	(3)	(	)	(3)	(	)
#CHEM 2545-2546	Organic Chemistry Lab	(1)	(	)	(1)	(	)
#CHEM 4554	Drug Chemistry				(3)	(	)
#CHEM 4615-4616	Physical Chemistry for the Life Sciences	(3)	(	)	(3)	(	)
#NEUR 3044	Cellular and Molecular Neuroscience				(3)	(	)
#NEUR 3064	Educational Neuroscience				(3)	(	)
NEUR 3464	Neuroscience and Society				(3)	(	)
#NEUR 3554	Neuroscience Research and Practical Experience				(3)	(	)
#NEUR 4034	Diseases of the Nervous System				(3)	(	)
*NEUR 4454	Neuroeconomics				(3)	(	)
*NEUR 4544	Synaptic Structure and Function				(3)	(	)
NEUR 4994	Undergraduate Research				(3)	(	)
PHYS 2205-2206	General Physics	(3)	(	)	(3)	(	)
PHYS 2215-2216	General Physics Lab	(1)	(	)	(1)	(	)
#PHYS 4714	Introduction to Biophysics				(3)	(	)
#PSYC 4044	Advanced Learning				(3)	(	)
#PSYC 4064	Physiological Psychology				(3)	(	)
#PSYC 4074	Sensation and Perception				(3)	(	)
#STAT 3424 Introduction to Statistical Neuroscience and Image Analysis							
#STAT 4204 Experimental Designs (3)							
Free Electives (25	Credits)						
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Free Electives (25 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.