

**COLLEGE OF SCIENCE**  
**BACHELOR OF SCIENCE in NEUROSCIENCE**  
Major in Neuroscience  
**For Students Graduating in Spring 2018**

Name: \_\_\_\_\_

Student ID # \_\_\_\_\_

**CURRICULUM FOR LIBERAL EDUCATION (CLE) REQUIREMENTS**

CLE AREA	Title	Credits
Area 1 (6 credits)	Writing and Discourse	3 ___ 3 ___
Area 2 (6 credits)	Ideas, Cultural Traditions and Values	3 ___ 3 ___
Area 3 (6 credits)	Society and Human Behavior PSYC 1004 and one other 3-credit course	3 ___ 3 ___
Area 4 (8 credits)	Scientific Reasoning and Discovery BIOL 1105-1115 AND 1106-1116 (Principles) OR BIOL 1005-1015 AND 1006-1016 (General	3 ___ 3 ___ 1 ___ 1 ___
Area 5 (6 credits)	Quantitative and Symbolic Reasoning MATH 1025-1026	3 ___ 3 ___
Area 6 (3 credits)	Creative and Aesthetic Experience	3 ___
Area 7 (3 credits)	Critical Issues in Global Context	3 ___
<b>Subtotal</b>		<b>38<sup>1</sup></b>

<sup>1</sup> Certain Area 7 courses also count as Area 2 or restricted courses. See CLE Guide for Area 2/Area 7 courses.

**MAJOR REQUIREMENTS**

*8 credit hours (6 lecture + 2 lab) of Chemistry:*

*CHEM 1035-1045 AND 1036-1046 OR	3 ___ 3 ___
CHEM 1015-1025 AND 1016-1026 only if hours transferred in upon admission or were taken here in a different major	1 ___ 1 ___

6 credit hours of Statistics: STAT 3615*-3616 Student who wish to specialize in statistics for neuroscience beyond this 6-credit requirement can also take STAT 3424 <sup>#</sup> as a restricted elective	3 ___ 3 ___
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6 credit hours of Physics: *PHYS 2205-2206	3 ___ 3 ___
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**Neuroscience Core Requirements**

*9 credit hours, Introduction to Neuroscience Courses and Labs:*

NEUR 1004 Neuroscience Orientation Seminar (1 cr)	1 ___
NEUR 2025-2026 Introduction to Neuroscience (6 cr)	3 ___ 3 ___
NEUR 2035-2036 Neuroscience Lab (2 cr)	1 ___ 1 ___

*15 credit hours, 3000-and 4000-level Neuroscience courses:*

NEUR 3044 Cellular and Molecular Neuroscience (3 cr)	3 ___
NEUR 3554 Neuroscience Research/Practical Experience (3 cr)	3 ___
NEUR 3084 Cognitive Neuroscience (3 cr)	3 ___
NEUR 4034 Diseases of the Nervous System (3cr)	3 ___
NEUR 4044 Neuroscience Senior Seminar (3 cr)	3 ___

**Subtotal**                      **44**

## RESTRICTED ELECTIVES

12 credits (at least 6 credits must be at 4000-level), selected from the list below (note that 4000-level courses often have prerequisites so plan restricted elective coursework accordingly)

		3	3	
		3	3	

- #ALS 2304 Comparative Animal Physiology and Anatomy (4 cr)
- #ALS/BIOL 4554 Neurochemical Regulation (3 cr)
- #BIOL 2104 Cell & Molecular Biology (3 cr)
- #BIOL 3404 Intro Animal Physiology (3 cr)
- #CHEM 2535 Organic Chemistry (3 cr)
- #CHEM 2536 Organic Chemistry (3 cr)
- #CHEM 4615 Physical Chemistry for the Life Sciences (3 cr)
- #CHEM 4616 Physical Chemistry for the Life Sciences (3 cr)
- #NEUR 3064 Educational Neuroscience (3 cr)
- #NEUR 3144 Mechanism of Learning and Memory (3 cr)
- #NEUR 3464 Neuroscience and Society (3 cr)
- #NEUR 4084 Developmental Cognitive Neuroscience (3 cr)
- #NEUR 4454 Neuroeconomics (3 cr)
- #NEUR 4544 Synaptic Structure and Function (3 cr)
- #NEUR 4994 Undergraduate Research
- #PHYS 2215 General Physics Laboratory (1 cr)
- #PHYS 2216 General Physics Laboratory (1cr)
- #PHYS 4714 Introduction to Biophysics (3 cr)
- #PSYC 2044 Psychology of Learning (3 cr)
- #PSYC 2064 Nervous Systems and Behavior (3 cr)
- #PSYC 4044 Advanced Learning (3 cr)
- #PSYC 4114 Cognitive Psychology (3 cr)
- #PSYC 4064 Physiological Psychology (3 cr)
- #PSYC 4074 Sensation and Perception (3 cr)
- #STAT 3424 Statistical Neuroscience and Image Analysis (3 cr)
- #STAT 4204 Experimental Design (3 cr)

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**Subtotal            12**

## FREE ELECTIVES

25\*-26 credits, free electives: to bring total to 120 credits

	( cr)		( cr)	
	( cr)		( cr)	

**\*For students in the Integrated Science Curriculum (ISC) program**

BIOL 1105-1106, 1115-1116, CHEM 1035-1036, 1045-1046, PHYS 2205-2206, and STAT 3615 can be substituted with ISC 1105-1106, 1115-1116, 2105-2106, 2115-2116.

**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 pre-requisite 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:** In addition to completing Required Courses listed on the first and second page (with restricted elective courses being selected from those on the list on page 2), each student must have a minimum overall GPA of 2.0 and a minimum in-major GPA of 2.0. For purposes of GPA computation, courses IN-MAJOR will include MAJOR REQUIREMENTS and RESTRICTED ELECTIVES list above.