College of Science
Bachelor of Science in Neuroscience
For Students Graduating in Spring 2018
Major: Experimental Neuroscience

Curriculum for Liberal Education (CLE) Requirements (38 credits)

Area 1: Writing and Discourse

_____ (3) ( ) _____ (3) ( )

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 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) ( )

Area 7: Critical Issues in Global Context

_____ (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 2035-2036	Neuroscience Laboratory	(1) ( )	(1) ( )
NEUR 4044	Neuroscience Senior Seminar		(3) ( )
PSYC 1004	Introductory Psychology		(3) ( )

Experimental Neuroscience Major Requirements (28 Credits)

CHEM 1045-1046	General Chemistry Lab	(1) ( )	(1) ( )
NEUR 3044	Cellular and Molecular Neuroscience		(3) ( )
NEUR 3084	Cognitive Neuroscience		(3) ( )
NEUR 3144	Mechanism of Learning and Memory		(3) ( )
NEUR 3554	Neuroscience Research and Practical Experience		(3) ( )
PHYS 2205-2206	General Physics	(3) ( )	(3) ( )
PHYS 2215-2216	General Physics Lab	(1) ( )	(1) ( )
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) ( )

#BIOL 2104	Cell & Molecular Biology			(3)	( )
#BIOL 3404	Introductory Animal Physiology			(3)	( )
#BIOL 4824	Bioinformatics Methods			(3)	( )
#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 3064	Educational Neuroscience			(3)	( )
NEUR 3464	Neuroscience and Society			(3)	( )
#NEUR 4034	Diseases of the Nervous System			(3)	( )
#NEUR 4084	Developmental Cognitive Neuroscience			(3)	( )
#NEUR 4454	Neuroeconomics			(3)	( )
#NEUR 4544	Synaptic Structure and Function			(3)	( )
NEUR 4994	Undergraduate Research			(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 Image Analysis			(3)	( )
#STAT 4204	Experimental Designs			(3)	( )

Free Electives (21 Credits)

_____	(__cr)	_____	(__cr)
_____	(__cr)	_____	(__cr)
_____	(__cr)	_____	(__cr)
_____	(__cr)	_____	(__cr)

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.