

College of Science
Bachelor of Science in Neuroscience
For Students Graduating in 2019
Major: Clinical 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 | | Area 7: Critical Issues in Global Context | |
| | (3) () | | (3) () |

Core Neuroscience Requirements (21 Credits)

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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) () |
| NEUR 4044 | Neuroscience Senior Seminar | | (3) () |
| PSYC 1004 | Introductory Psychology | | (3) () |

Clinical Neuroscience Major Requirements (30 Credits)

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|----------------|-------------------------------------|---------|---------|
| CHEM 1045-1046 | General Chemistry Lab | (1) () | (1) () |
| CHEM 2535-2536 | Organic Chemistry | (3) () | (3) () |
| CHEM 2545-2546 | Organic Chemistry Lab | (1) () | (1) () |
| NEUR 3044 | Cellular and Molecular Neuroscience | | (3) () |
| NEUR 4034 | Diseases of the Nervous System | | (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.

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|----------------|---|---------|
| #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) () |

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|-----------------|---|---------|---------|
| #BIOL 2104 | Cell & Molecular Biology | (3) | () |
| #BIOL 3404 | Introductory Animal Physiology | (3) | () |
| #BIOL 4824 | Bioinformatics Methods | (3) | () |
| #CHEM 4554 | Drug Chemistry | (3) | () |
| #CHEM 4615-4616 | Physical Chemistry for the Life Sciences | (3) () | (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 4084 | Developmental Cognitive Neuroscience | (3) | () |
| #NEUR 4454 | Neuroeconomics | (3) | () |
| #NEUR 4544 | Synaptic Structure and Function | (3) | () |
| #NEUR 4594 | Clinical Neuroscience in Practice | (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 (19 Credits)

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|-------|--------|-------|--------|
| _____ | (__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 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.