

**Major: Neuroscience**  
UG Catalog 2025-2026

**Pathways to General Education Requirements (45 credits)**

Concept 1F	_____ (3)	_____ (3)
Concept 1A	_____ (3)	
Concept 2	_____ (3)	_____ (3)
Concept 3	PSYC 1004 (3)	_____ (3)
Concept 4	BIOL 1105 (3)	BIOL 1106 (3)
Concept 5F	MATH 1025 (3)	MATH 1026 (3)
Concept 5A	STAT 3615 (3)	
Concept 6A	_____ (3)	
Concept 6D	_____ (3)	
Concept 7	_____ (3)	

**Neuroscience Core Requirements (25 credits)**

CHEM 1035	General Chemistry	_____ (3)
CHEM 1036	General Chemistry	_____ (3)
NEUR 1004	Neuroscience Orientation Seminar	_____ (1)
NEUR 2025	Introduction to Neuroscience	_____ (3)
NEUR 2026	Introduction to Neuroscience	_____ (3)
NEUR 2035	Neuroscience Laboratory	_____ (1)
NEUR 2036	Neuroscience Laboratory	_____ (1)
NEUR 3044	Cell and Molecular Neuroscience	_____ (4)
NEUR 3084	Cognitive Neuroscience	_____ (3)
NEUR 4044	Neuroscience Senior Seminar	_____ (3)

**Neuroscience Major Requirements (29 credits)**

BIOL 1115	Principles of Biology Lab	_____ (1)
BIOL 1116	Principles of Biology Lab	_____ (1)
CHEM 1045	General Chemistry Lab	_____ (1)
CHEM 1046	General Chemistry Lab	_____ (1)
CHEM 2535	Organic Chemistry	_____ (3)
CHEM 2545	Organic Chemistry Lab	_____ (1)
NEUR 3074	Evolutionary Neuroscience	_____ (3)
NEUR 3604	Neurobiochemistry	_____ (3)
NEUR 3704	Human Anatomy & Physio w/ Neuro Focus	_____ (4)
PHYS 2205	General Physics	_____ (3)
PHYS 2206	General Physics	_____ (3)
PHYS 2215	General Physics Lab	_____ (1)
PHYS 2216	General Physics Lab	_____ (1)
STAT 3616	Biological Statistics	_____ (3)

**Major Electives (6 credits):** Choose at least one course from each area. Any course not chosen for a Major Elective may count towards Restricted Electives.

### Cellular Area Electives

NEUR 3594	Neurobiology of Psychiatric Disorders	_____ (3)
NEUR 4034	Diseases of the Nervous System	_____ (3)
NEUR 4054	Developmental Neuroscience	_____ (3)
NEUR 4064	Neuropharmacology	_____ (3)
NEUR 4314	Genetics in Neuroscience	_____ (3)
NEUR 4514	Neuroimmunology in Health and Disease	_____ (3)
NEUR 4814	Nutritional Neuroscience	_____ (3)

### Behavior and Systems Area Electives

NEUR 3054	Brain-Body Interactions in Health and Disease	_____ (3)
NEUR 3144	Mechanisms of Learning and Memory	_____ (3)
NEUR 3234	The Artificial Brain	_____ (3)
NEUR 3774	Neuroendocrinology	_____ (3)
NEUR 3844	Computational Neuro & Neur Engineering	_____ (3)
NEUR 3914	Neuroscience of Drug Addiction	_____ (3)
NEUR 4244	Motor Control: Build, Break, Repair	_____ (3)

**Restricted Electives (6 credits):** Choose 6 credits of restricted electives. Courses in the Cellular, Behavior and Systems Area Electives may count as restricted electives if they are not used to fulfill an area requirement.

CHEM 2536	Organic Chemistry	_____ (3)
CHEM 2546	Organic Chemistry Lab	_____ (1)
CHEM 4615	Physical Chemistry	_____ (3)
CHEM 4616	Physical Chemistry	_____ (3)
NEUR 2074	Translational Neuroscience	_____ (3)
NEUR 2364	Mind Altering Substances from Nature	_____ (3)
NEUR 2464	Neuroscience and Society	_____ (3)
NEUR 2554	Experimental Neuroscience	_____ (3)
NEUR 2594	Exploring Clinical Neuroscience	_____ (3)
NEUR 3034	Global Perspectives Pre-Departure	_____ (2)
NEUR 3944	War and the Brain	_____ (3)
NEUR 4364	Neuroscience of Lang and Comm Disorders	_____ (3)
NEUR 4454	Neuroeconomics	_____ (3)
NEUR 4594	Clinical Neuroscience in Practice	_____ (3)
NEUR 4914	Drug Development in Neuroscience	_____ (3)
NEUR 4994	Undergraduate Research	_____ (3)
PHYS 4714	Introduction to Biophysics	_____ (3)

**Free Electives (9 credits)** Complete remaining credit hours to satisfy 120 credit hour degree requirement.

XXXX XXXX	_____	_____ (X)
XXXX XXXX	_____	_____ (X)
XXXX XXXX	_____	_____ (X)

**Acceptable Substitutions****Required Course(s)**

CHEM 1035-1036 series

CHEM 1045-1046 series

CHEM 2535-2536 series

CHEM 2545-2546 series

MATH 1025-1026 series

MATH 1025-1026 series

NEUR 1004

NEUR 3604

NEUR 3704

PHYS 2205, 2215

PHYS 2206, 2216

STAT 3615-3616 series

**Acceptable Substitution(s)**

CHEM 1055-1056 series General Chemistry for Majors

CHEM 1065-1066 series General Chemistry Lab for Majors

CHEM 2565-2566 series Principles of Organic Chemistry

CHEM 2555-2556 series Org Syn Tech Lab

MATH 1225-1226 series Calculus of a Single Variable

MATH 1225-MATH 1026 series

Any University-approved First Year Experience Course

BCHM 2024 Concepts of Biochemistry *or*

BCHM 3114 Biochemistry for Biotechnology

BMSP 2135 + 2136 + 2145 + 2146 Human Anatomy &amp; Physiology with labs (8)

*or* ALS 2304 Comparative Animal Physiology and Anatomy (4)

PHYS 2305 Foundations of Physics

PHYS 2306 Foundations of Physics

STAT 3005-3006 series