

College of Science
Bachelor of Science in Neuroscience
For Student Date of Entry Under UG Catalog 2025-2026
Major in Computational and Systems Neuroscience

Fall Semester Freshman 2025		Credits	Spring Semester Freshman 2026		Credits
*BIOL 1105: (Pathways Concept 4: Reasoning in the Natural Sciences): Principles of Biology		3	**BIOL 1106: (Pathways Concept 4: Reasoning in the Natural Sciences): Principles of Biology		3
CHEM 1035: General Chemistry		3	CHEM 1036: General Chemistry		3
ENGL 1105: (Pathways Concept 1F: Discourse- Foundational): First Year Writing		3	ENGL 1106: (Pathways Concept 1F: Discourse- Foundational): First Year Writing		3
MATH 1225: (Pathways Concept 5F: Quantitative and Computational Thinking - Foundational): Calculus of a Single Variable		4	MATH 1226: (Pathways Concept 5F: Quantitative and Computational Thinking - Foundational): Calculus of a Single Variable		4
*NEUR 1004: Neuroscience Orientation Seminar		1	Pathways Concept 2: Critical Thinking in the Humanities		3
PSYC 1004: (Pathways Concept 3: Reasoning in the Social Sciences): Introductory Psychology		3			
TOTAL		17	TOTAL		16
Fall Semester Sophomore 2026		Credits	Spring Semester Sophomore 2027		Credits
NEUR 2025: Introduction to Neuroscience		3	NEUR 2026: Introduction to Neuroscience		3
NEUR 2035: Introduction to Neuroscience Lab		1	NEUR 2036: Introduction to Neuroscience Lab		1
CS 1114: Introduction to Software Design or CS 1064: Introduction to Programming in Python		3	Pathways Concept 6A: Critique and Practice in Design and the Arts (Arts)		3
Pathways Concept 2: Critical Thinking in the Humanities		3	Free Elective		3
Pathways Concept 3: Reasoning in the Social Sciences		3	Free Elective		3
TOTAL		13	TOTAL		13
Fall Semester Junior 2027		Credits	Spring Semester Junior 2028		Credits
NEUR 3044: Cellular & Molecular Neuroscience		4	NEUR 3084: Cognitive Neuroscience		3
PHYS 2305: Foundations of Physics		4	PHYS 2306: Foundations of Physics		4
Pathway 1A: Discourse - Advanced		3	Restricted Elective		3
STAT 3615: (Pathways Concept 5A: Quantitative and Computational Thinking –Advanced): Biostatistics		3	STAT 3616: Biostatistics		3
*NEUR 3234: Artificial Brain		3	**NEUR 3844: Computational Neuroscience and Neural Engineering		3
TOTAL		17	TOTAL		16
Fall Semester Senior 2028		Credits	Spring Semester Senior 2029		Credits
Pathways Concept 6D: Critique and Practice in Design and the Arts (Design)		3	NEUR 4044: Neuroscience Senior Seminar		3
NEUR 4244: Motor Control: Build, Break, Repair		3	Restricted Elective		3
Restricted Elective		3	Restricted Elective		3
Free Elective		3	Free Elective		3
Pathways Concept 7: Critical Analysis of Identity and Equity in the US		3	Free Elective		3
TOTAL		15	TOTAL		15

SAMPLE Academic Plan for students graduating calendar year 2029
Minimum of 120 credit hours needed for graduation

*Fall only course
**Spring only course