College of Science
Bachelor of Science in Neuroscience

For Student Date of Entry Under UG Catalog 2024-2025

Major in **Computational and Systems Neuroscience**

Fall Semester Freshman 2024	Credits	Spring Semester Freshman 2025	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
***BIOL 1115**: Principles of Biology Lab	1	****BIOL 1116**: Principles of Biology Lab	1
CHEM 1035: General Chemistry	3	**CHEM 1036:** General Chemistry	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
ENGL 1105: (Pathways Concept 1F: Discourse - Foundational): First Year Writing	3	**ENGL 1106**: (Pathways Concept 1F: Discourse - Foundational): First Year Writing	3
NEUR 1004: Neuroscience Orientation Seminar	2	**Pathways Concept 3: Reasoning in the Social Sciences**	3
TOTAL	16	**TOTAL**	17

Fall Semester Sophomore 2025	Credits	Spring Semester Sophomore 2026	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
Pathways Concept 2: Critical Thinking in the Humanities	3	**Pathways Concept 2: Critical Thinking in the Humanities**	3
CS 1114: Introduction to Software Design	3	**Pathways Concept 3: Reasoning in the Social Sciences**	3
PSYC 1004: Introductory Psychology	3	**Free Elective**	3
Pathways Concept 6A: Critique and Practice in Design and the Arts (Arts)	3	**Free Elective**	3
TOTAL	16	**TOTAL**	16

Fall Semester Junior 2026	Credits	Spring Semester Junior 2027	Credits
NEUR 3044: Cellular & Molecular Neuroscience	3	**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	16	**TOTAL**	16

Fall Semester Senior 2027	Credits	Spring Semester Senior 2028	Credits
Pathways Concept 6D: Critique and Practice in Design and the Arts (Design)	3	**NEUR 4044:** Neuroscience Senior Seminar	3
RESTRICTED ELECTIVE	3	**RESTRICTED ELECTIVE**	3
Pathways Concept 7: Critical Analysis of Identity and Equity in the US	3	**Free Elective**	3
Free Elective	3	**Free Elective**	3
TOTAL	12	**TOTAL**	12

SAMPLE Academic Plan for students graduating calendar year 2028
Minimum of 120 credit hours needed for graduation

*Fall only course
**Spring only course