

College of Science
Bachelor of Science in Neuroscience
For Student Date of Entry Under UG Catalog 2023-2024
Major in Computational and Systems Neuroscience

| Fall Semester Freshman 2023 | | Credits | Spring Semester Freshman 2024 | | 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 1014: Calculations in Chemistry | 3 | | CS 1114: Introduction to Software Design | 3 | |
| MATH 1214: Preparation for Calculus | 3 | | MATH1225: (Pathways Concept5F: Quantitative and Computational Thinking –Foundational): Calculus of a Single Variable | 4 | |
| *NEUR 1004: Neuroscience Orientation Seminar | 2 | | ENGL 1106: (Pathways Concept 1F Discourse-Foundational): First Year Writing | 3 | |
| ENGL 1105: (Pathways Concept 1F Discourse-Foundational): First Year Writing | 3 | | Pathways Concept 2: Critical Thinking in the Humanities | 3 | |
| TOTAL | 15 | | TOTAL | 17 | |
| Fall Semester Sophomore 2024 | | Credits | Spring Semester Sophomore 2025 | | 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 | |
| PSYC 1004: Introductory Psychology | 3 | | Pathways Concept 3: Reasoning in the Social Sciences | 3 | |
| Pathways Concept 3: Reasoning in the Social Sciences | 3 | | Pathways Concept 2: Critical Thinking in the Humanities | 3 | |
| CHEM 1035: General Chemistry | 3 | | CHEM 1036: General Chemistry | 3 | |
| MATH 1226: (Pathways Concept 5F: Quantitative and Computational Thinking –Foundational): Calculus of a Single Variable | 4 | | Pathways Concept 6A: Critique and Practice in Design and the Arts (Arts) | 3 | |
| TOTAL | 17 | | TOTAL | 16 | |
| Fall Semester Junior 2025 | | Credits | Spring Semester Junior 2026 | | Credits |
| Pathways Concept 1A: Discourse- Advanced | 3 | | PHYS 2306: Foundations of Physics | 4 | |
| PHYS 2305: Foundations of Physics | 4 | | NEUR 3084: Cognitive Neuroscience | 3 | |
| RESTRICTED ELECTIVE | 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 2026 | | Credits | Spring Semester Senior 2027 | | 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 2027
Minimum of 120 credit hours needed for graduation

*Fall only course
**Spring only course