College of Science

Bachelor of Science in Neuroscience

For Students Graduating in 2022 and for Student Date of Entry Under UG Catalog 2020-2021

Major in Computational and Systems Neuroscience

Fall Semester Freshman 2018	Credits	Spring Semester Freshman 2019	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
Pathways Concept 2: Critical Thinking in the Humanities	3	**CS 1114:** Introduction to Software Design	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	**ENGL 1106**: (Pathways Concept 1F Discourse-Foundational): First Year Writing	3
ENGL 1105: (Pathways Concept 1F Discourse-Foundational): First Year Writing	3	**Free Elective**	3
TOTAL	15	**TOTAL**	17
Fall Semester Sophomore 2019	**Credits**	**Spring Semester Sophomore 2020**	**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
Pathways Concept 6A: Critique and Practice in Design and the Arts (Arts)	3	**Free Elective**	3
TOTAL	16	**TOTAL**	16
Fall Semester Junior 2020	**Credits**	**Spring Semester Junior 2021**	**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 4A **Choose one: NEUR 3144, 4454, or 3914**	3	**RESTRICTED ELECTIVE 4A** **Choose one: NEUR 3144, 4454, or 3914**	3
STAT 3005: (Pathways Concept 5A: Quantitative and Computational Thinking –Advanced): Statistical Methods	3	**STAT 3006:** Statistical Methods	3
NEUR 3844: Computational Neuroscience and Neural Engineering	3	**NEUR 3234:** Artificial Brain	3
TOTAL	16	**TOTAL**	16
Fall Semester Senior 2021	**Credits**	**Spring Semester Senior 2022**	**Credits**
Pathways Concept 6D: Critique and Practice in Design and the Arts (Design)	3	**NEUR 4044:** Neuroscience Senior Seminar	3
RESTRICTED ELECTIVE 4B NEUR	3	**RESTRICTED ELECTIVE 4C General**	3
Pathways Concept 7: Critical Analysis of Identity and Equity in the US	3	**Free Elective**	3
Free Elective	3	**Free Elective**	3
Free Elective	3	**Free Elective**	3
TOTAL	15	**TOTAL**	15

SAMPLE Academic Plan for students graduating calendar year 2022

Total of 120 credit hours needed for graduation