

College of Science
Bachelor of Science in Neuroscience
For Students Graduating in 2021
Major in Computational and Systems Neuroscience-Option A-Pathways

Fall Semester Freshman 2017		Credits	Spring Semester Freshman 2018		Credits
BIOL 1105 (Pathways Reasoning in the Natural Sciences): Principles of Biology		3	NEUR 2025: Introduction to Neuroscience		3
BIOL 1115: Principles of Biology Lab		1	NEUR 2035: Introduction to Neuroscience Lab		1
MATH 1225 (Pathways Quantitative and Computational Thinking- Foundational): Calculus of Single Variable		4	MATH 1226 (Pathways Quantitative and Computational Thinking- Foundational): Calculus of Single Variable		4
NEUR 1004: Neuroscience Orientation Seminar		1	ENGL 1106 (Pathways Discourse- Foundational): First Year Writing		3
ENGL 1105 (Pathways Discourse- Foundational): First Year Writing		3	CS 1114: Introduction to Software Design		3
PSYC 1004: Introductory Psychology		3	Free Elective		1
TOTAL		15	TOTAL		15
Fall Semester Sophomore 2018		Credits	Spring Semester Sophomore 2019		Credits
NEUR 2026: Introduction to Neuroscience		3	BIOL 1106 (Pathways Reasoning in the Natural Sciences): Principles of Biology		3
NEUR 2036: Introduction to Neuroscience Lab		1	BIOL 1116: Principles of Biology Lab		1
STAT 3005 (Pathways Quantitative and Computational Thinking- Advanced): Statistical Methods		3	STAT 3006: Statistical Methods		3
CHEM 1035: General Chemistry		3	CHEM 1036: General Chemistry		3
Pathways Critical Thinking in the Humanities		3	Pathways Critical Thinking in the Humanities		3
Pathways Advanced/Applied Discourse		3	NEUR 3084: Cognitive Neuroscience		3
TOTAL		16	TOTAL		16
Fall Semester Junior 2019		Credits	Spring Semester Junior 2020		Credits
PHYS 2305: Foundations of Physics I		4	PHYS 2306: Foundations of Physics I		4
NEUR 3844: Computational Neuroscience and Neural Engineering		3	NEUR 3234: The Artificial Brain		3
RESTRICTED ELECTIVE (Choose one: NEUR 3144, 4544, 3914)		3	RESTRICTED ELECTIVE (Choose another: NEUR 3144, 4544, 3914)		3
Pathways Reasoning in the Social Sciences		3	Pathways Reasoning in the Social Sciences		3
Free Elective		3	Free Elective		3
TOTAL		16	TOTAL		16
Fall Semester Senior 2020		Credits	Spring Semester Senior 2021		Credits
RESTRICTED ELECTIVE		3	RESTRICTED ELECTIVE (NEUR prefix)		3
Pathways Critique and Practice in Design and Arts-Design		3	Pathways Critical Analysis of Identity and Equity in the US		3
NEUR 4044: Neuroscience Senior Seminar		3	Free Elective		3
Pathways Critique and Practice in Design and Arts-Arts		3	Free Elective		3
Free Elective		3			
TOTAL		15	TOTAL		12

SAMPLE Academic Plan for students graduating calendar year 2021
Total of 120 credit hours needed for graduation