Simmons UNIVERSITY

Neuroscience & Behavior
Joint Major of Biology & Psychology
Academic Planning Worksheet
2019-2020

Notes
- Students are required to complete a total of 56 credit hours. Majors will take 9 core courses (including Capstone Course NB 347) and complete 5 courses in one of the two tracks: Neurobiology or Cognitive & Behavioral (see below).
- Neuroscience & Behavior is a joint major between the departments of Biology and Psychology.
- See "Simmons PLAN & Graduation Requirements" table for all-college requirements.

Core Requirements
Majors will complete a core of the following courses.

Course #	Course Title	Credits	Completed
First Year			
BIOL 113/ 115	General Biology or Advanced General Biology	4	
CHEM 111/ 113/ 115	Principles of General Chemistry, General Chemistry I, or Intensive General Chemistry (all Fall, based on placement)	4	
PSYC 101*	Introduction to Psychological Science	4	
Sophomore Year			
MATH 118 (or MATH 227 or 229)	Introductory Statistics (or higher)	4	
PSYC 201	Biological Psychology	4	
PSYC 203	Research Methods in Psychology	4	
Junior Year			
PHIL 237^	Philosophy of Mind (Fall)	4	
BIOL ___	**ONE** additional Biology course at the 200-level or higher. Course Selected:	4	
Senior Year			
NB 347	Seminar in Neuroscience & Behavior [capstone] (Spring)	4	

*AP Psychology Test Score of 4 or 5 may be used to replace the PSYC 101 requirement
**Chemistry requirements for the Neuroscience and Behavior major include one introductory semester (course depends on placement exam). If you are completing the Neurobiology track, you are required to take one additional semester of organic chemistry, typically CHEM 112. (If you are planning a Pre-Med track, you will need to take one introductory course plus: CHEM 216 Quantitative Analysis and CHEM 224 & 225 Organic Chemistry I & II.)
^ Philosophy prerequisite waived for Neuroscience and Behavior majors.

Complete One Track:
Neurobiology Track (B.S. in Neuroscience & Behavior)
Complete FIVE required courses for the Neuroscience & Behavior track.

Course #	Course Title	Credits	Completed
CHEM 112 OR CHEM 224	Principles of Organic Chemistry (Spring) OR Organic Chemistry I (Fall)	4	
BIOL 225	Cell Biology (Spring)	4	
BIOL 334	Neurobiology* (every other Spring, even years)	4	
BIOL 337	Molecular Biology* (every other Spring, odd years)	4	
BIOL 350 OR BIOL 370	Fall semester of: Internship OR Independent Laboratory Research	4	

*Please note: These courses are offered every other year and plan your schedule accordingly.

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Cognitive & Behavioral Track (B.A. in Neuroscience & Behavior)
Complete FIVE required courses for the Cognitive Behavioral track.

Course #	Course Title	Credits	Completed
BIOL 342	Topics in Behavioral Biology (Fall)	4	
PSYC Basic Processes	Choose **ONE** from the following: PSYC 243: Cognitive Psychology PSYC 244: Drugs and Behavior PSYC 245: Learning and Conditioning PSYC 247: Sensation and Perception	4	
PSYC Upper Level Research	Choose **ONE** from the following: PSYC 301: Research in Biopsychology OR PSYC 303: Research in Cognitive Processes OR PSYC 304: Research in Personality	4	
TWO additional courses from the **Neuroscience Course** list (see list below)			
Courses Selected		**Credits**	**Completed**
1.		4	
2.		4	

Neuroscience Courses
Courses cannot double-count for core/track requirements and as Neuroscience list courses.

PSYC 231	The Nature of Abnormal Behavioral
PSYC 232	Health Psychology
PSYC 243	Cognitive Psychology
PSYC 244	Drugs and Behavior
PSYC 245	Learning and Conditioning
PSYC 247	Sensation and Perception
PSYC 301	Research in Biopsychology
PSYC 303	Research in Cognitive Processes
MATH 227	Intermediate Statistics: Design and Analysis
MATH 229	Regression Models
CS 112	Introduction to Computer Science
IT 225	Health Informatics
BIOL 222	Animal Physiology
BIOL 225	Cell Biology
BIOL 231	Anatomy and Physiology I
BIOL 246	Foundations of Exercise and Health
BIOL 334	Neurobiology
BIOL 335	Developmental Biology
BIOL 336	Genetics
CHEM 112 OR	Principles of Organic Chemistry OR
CHEM 224	Organic Chemistry I
CHEM 223	Principles of Biochemistry
NUTR 111 OR	Fundamentals of Nutrition Science OR
NUTR 112	Intro to Nutrition Science
PHIL 136	Philosophy of Human Nature
SOCI 241	Health, Illness, and Society

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Independent Learning in Neuroscience and Behavior
Independent learning experiences enrich a student's education in Neuroscience & Behavior and can distinguish a student's qualifications when applying for employment and admission to graduate school. Students in the Neurobiology track are required to complete at least one semester of BIOL 350 Independent Laboratory Research or BIOL 370 Internship. However, Neuroscience & Behavior majors in both tracks are strongly encouraged to speak with their advisor about integrating one or more of the following into their plan:

BIOL 350	Independent Laboratory Research
BIOL 370	Internship
BIOL 355	Thesis
PSYC 350	Independent Study
PSYC 380	Fieldwork in a Psychological Setting
PSYC 355	Thesis
PSYC 381	Thesis in Psychology

Course Selected	Credits	Completed

PLAN Requirements
The Simmons PLAN is the undergraduate core curriculum. Some PLAN courses will be fulfilled with courses required for this major, as indicated below. Additional PLAN requirements may be fulfilled through electives, courses in minors or other course offerings. Work closely with your advisor(s) to choose courses.

Year	Semester	Course Title		Credits	Complete
One	Fall	**BOS 101:** The Boston Course		4	
		SIM 101: The Simmons Course: Explore		2	
	Spring	**LDR 101:** The Leadership Course		4	
Two	Fall or Spring	**The Learning Community:** Two discipline courses & one integrative seminar		8	
		SIM 201: The Simmons Course: Experience		1	
Three	Fall or Spring	**SIM 301:** The Simmons Course: Excel		1	
Three & Four	Fall or Spring	**3D*–** Design Across Diverse Disciplines		12	
Any	**Requirements**		**Course Selected**		
	Language: Two semesters in the same language, taken sequentially and strongly encouraged to complete within their first two years.			4	
				4	
	Quantitative Literacy (QL)		MATH 118	4	
	Key Content Areas** (KCAs)	Aesthetic, Literary and Artistic (ALA)		4	
		Global Cultural (GC)	PHIL 237	4	
		Scientific Inquiry (SCI)	BIOL 113	4	
		Social and Historical (SH)		4	

***3D–** Design Across Diverse Disciplines– requirement may be met with one course in your major, and two additional courses that may also count as KCAs.
****KCAs** – May be covered by Major, Learning Community and/or 3D courses

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