

Checklist for Neuroscience Majors - AY2019 and earlier

NOTE: this is a tool to assist in determining major requirements - does not necessarily reflect all changes made in the past year. For the most up to date information please check the Bulletin

Name _____ Advisor _____ Degree _____ Class _____ Date _____

A. Core Courses*: Neuro NBIO 140b _____
 Quant BIOL51a, 107a, 135b; NBIO136b; NPSY137b; PSYC 51a, 148a, 210a; QBIO 110a; NPHY 115a, ECON 83a or PHYS 105a

B. Electives (BS=7 + courses, BA = 6+ courses)

Group 1 (at least 2)

BIOL 149b	_____	Molecular Pharmacology	BIOL 42a	_____	Physiology
NBIO 45a	_____	Basis of Memory (not also NPSY 11)	BIOL 50b	_____	Biology of Behavior
NBIO 123a	_____	Population Genetics/Genomic	BIOL 100B	_____	Advanced Cell Biology
NBIO 136b	_____	Comp. Neuroscience	BIOL 103b	_____	Mechanisms of Cell Function
NBIO 142b	_____	Sleep	BIOL 105b	_____	Molecular Biology
NBIO 143b	_____	Developmental Neurobiology	BIOL 107a	_____	Data Analysis & Stats
	_____		BIOL 111a	_____	Developmental Biology
NBIO 145b	_____	Neuroscience Systems	BIOL 122a	_____	Molecular Genetics
NBIO 146a	_____	Neurobio of Human Disease	BIOL 124b	_____	Epigenetics
NBIO 147a	_____	Neurogenetics	BIOL 135b	_____	The Principles of Biological Modeling
NBIO 148b	_____	Cllr Mchnsms of Nrnl Exctblty/Pltctsty	QBIO 110a	_____	Num. Model. of Bio Systems
NBIO 150a	_____	Autism	QBIO 120a	_____	Quan. Bio. Instr. Lab
NBIO 157a	_____	Proj Lab NeuroBio and Behavior	CBIO 106b	_____	Medicinal Enzymology
NBIO 161a	_____	Cell&Network Mech of Mem	NPHY 115a	_____	Dynamical Systems

Group 2 (at least 2)

NPSY 11b ** _____ Intr to Beh Neur (not also NBIO45)
 NPSY 12a _____ Sensory Processes
 NPSY 16a _____ Motor Control (**NPSY 127a**)
 NPSY 17a _____ Hand and Brain
 NPSY 22b _____ Intro. To Cog. Neuro.
 NPSY 120b _____ Man in Space
 NPSY 139a _____ Memory and the Brain
 NPSY 141a _____ Stress, Physiology & Health
 NPSY 154a _____ Human Memory
 NPSY 174b _____ Visual Cognition
 NPSY 182a _____ Dev. Cog NS: Infancy thru Adolesc.
 NPSY 196b _____ Adv. Topics in Cognition
 NPSY 197a _____ Adv. Topics Behav Neurosci
 NPSY 199a _____ Human Neuropsychology
 PHIL 123b *** _____ Neuroethics
 PHIL 131a *** _____ Philosophy of Mind
 PHIL 153a *** _____ Neurophilosophy

Group 3

BCHM 88A or 100A _____ Intro to Biochemistry
 BCHM 101a _____ Advanced Biochemistry
 BIOL 14a _____ Genetics and Genomics
 BIOL 15b _____ Cells and Organisms

C. Honors: 2 semesters count as 1 grp 3 elective)****

NEURO 99A _____ Senior Research
 NEURO 99b _____ Senior Research
 NEURO 99e _____ Senior Research

D. Science Breadth Electives

9 (BA) or 10 (BS) courses taken from CHEM, PHYS, MATH, or COSI level 10 or above if meet requirements of that major;
 BIOL 14a, 15b (if not used in grp3); BIOL 16A, BIOL 18a,b, EL 29b, QBIO 120, BCHM 88a, Project Labs, BIOL 42B is a 2 credit BSE Lab
 99 a+b as 1 BSE lab (if not used as Grp 3)

Note: 18A is four credits and so counts as two BSE 2 credit Labs

LAB REQUIREMENT (3 full semester courses)

ADDITIONAL COURSES (BS = 7; BA = 6)

NOTES:

* No individual course can count towards more than one requirement within the Neuroscience major

** Only one of NPSY 11 and NBIO 45 can be taken for credit towards the major

*** Only one PHIL class can count as a Group 2 elective

**** A student who has completed two courses in both Groups 1 and 2 may petition to substitute NEUR 93A and NEUR 99A or Neur 99 a and b for a Group 3 elective or a BSE Lab

Candidates for Neur 99 must petition the program committee during the fall of their senior year and submit a thesis. Candidates for the Senior Honors Program must also orally defend a thesis.