Checklist for Neuroscience Majors AY 18-19

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  

BiO1 45a  Basis of Memory (not also NPSY 11)  
BiOL 50b  Biology of Behavior  

BiOL 123a  Population Genetics/Genomic  
BiOL 100b  Advanced Cell Biology  

BiOL 136b  Comp. Neuroscience  
BiOL 103b  Mechanisms of Cell Function  

BiOL 142b  Sleep  
BiOL 105b  Molecular Biology  

BiOL 143b  Developmental Neurobiology  
BiOL 107a  Data Analysis & Stats  

BiOL 145b  Neuroscience Systems  
BiOL 111a  Developmental Biology  

BiOL 146a  Neurobio of Human Disease  
BiOL 124b  Epigenetics  

BiOL 147a  Neurogenetics  
BiOL 135b  The Principles of Biological Modeling  

BiOL 148b  Cbr Mchnsms of Nrrl Excitblty/Pltctsy  
QBIO 110a  Num. Model. of Bio Systems  

BiOL 150a  Autism  
QBIO 120a  Quan. Bio. Instr. Lab  

BiOL 157a  Proj Lab NeuroBio and Behavior  
CBIO 106b  Medicinal Enzymology  

BiOL 161a  Cell&Network Mech of Mem  
NPHY 115a  Dynamical Systems

Group 2 (at least 2)

NPSY 11b **  Intr to Beh Neur (not also NBIO45)  
NEURO 99A  Senior Research  

NPSY 12a  Sensory Processes  
NEURO 99b  Senior Research  

NPSY 16a  Motor Control (NPSY 127a)  
NEURO 99e  Senior Research  

NPSY 17a  Hand and Brain  


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

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

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)

BCHM 88A or 100A  Intro to Biochemistry

BCHM 101a  Advanced Biochemistry

BIOL 14a  Genetics and Genomics

BIOL 15b  Cells and Organisms

Last edit: 2/27/19
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.

Biol 14 a and 15 may count towards either Group 3 elective or BSE elective but not both