

## Checklist for Neuroscience Majors AY 19-20

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  
 NBIO 45a \_\_\_\_\_ Basis of Memory (not also NPSY 11)  
 NBIO 123a \_\_\_\_\_ Population Genetics/Genomic  
 NBIO 136b \_\_\_\_\_ Comp. Neuroscience  
 NBIO 142b \_\_\_\_\_ Sleep  
 NBIO 143b \_\_\_\_\_ Developmental Neurobiology  
 \_\_\_\_\_  
 NBIO 145b \_\_\_\_\_ Neuroscience Systems  
 NBIO 146a \_\_\_\_\_ Neurobio of Human Disease  
 NBIO 147a \_\_\_\_\_ Neurogenetics  
 NBIO 148b \_\_\_\_\_ Cllr Mchnsms of Nrnl Exctblty/Pltctsty  
 NBIO 150a \_\_\_\_\_ Autism  
 NBIO 157a \_\_\_\_\_ Proj Lab NeuroBio and Behavior  
 NBIO 161a \_\_\_\_\_ Cell&Network Mech of Mem

BIOL 42a \_\_\_\_\_ Physiology  
 BIOL 50b \_\_\_\_\_ Biology of Behavior  
 BIOL 100B \_\_\_\_\_ Advanced Cell Biology  
 BIOL 103b \_\_\_\_\_ Mechanisms of Cell Function  
 BIOL 105b \_\_\_\_\_ Molecular Biology  
 BIOL 107a \_\_\_\_\_ Data Analysis & Stats  
 BIOL 111a \_\_\_\_\_ Developmental Biology  
 BIOL 122a \_\_\_\_\_ Molecular Genetics  
 BIOL 124b \_\_\_\_\_ Epigenetics  
 BIOL 135b \_\_\_\_\_ The Principles of Biological Modeling  
 QBIO 110a \_\_\_\_\_ Num. Model. of Bio Systems  
 QBIO 120a \_\_\_\_\_ Quan. Bio. Instr. Lab  
 CBIO 106b \_\_\_\_\_ Medicinal Enzymology  
 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

### 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)

**Group 3**  
 BCHM 88a or 100A \_\_\_\_\_ Intro to Biochemistry  
 BCHM 101a \_\_\_\_\_ Advanced Biochemistry  
 BIOL 14a \_\_\_\_\_ Genetics and Genomics  
 BIOL 15b \_\_\_\_\_ Cells and Organisms


**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