

Checklist for Neuroscience Majors AY 17-18

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; Q BIO 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 _____ Cellular Neuroscience
 NBIO 150a _____ Autism

 NBIO 157a _____ Proj Lab NeuroBio and Behavior
 NBIO 161a _____ Cell&Network Mech of Mem

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

BIOL 42a _____ Physiology
 BIOL 50b _____ Biology of Behavior
 BIOL 103b _____ Adv Cell Biology
 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
 Q BIO 110a _____ Num. Model. of Bio Systems
 Q BIO 120a _____ Quan. Bio. Instr. Lab
 C BIO 106b _____ Medicinal Enzymology
 NPHY 115a _____ Dynamical Systems

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, Q BIO 120, BCHM 88a, Project Labs
 99 a+b as 1 BSE lab(if not used as Grp 3)*

NOTE: Advanced Placement exams may count for at most two science breadth electives for the neuroscience major.

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.

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