

Checklist for Neuroscience Majors

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 61B  | _____ Sense the World                    | BIOL 42a     | _____ Physiology                            |
| BIOL 149b | _____ Molecular Pharmacology             | BIOL 50b     | _____ Biology of Behavior                   |
|           |  | BIOL 100b or |   |
| NBIO 45a  | _____ Basis of Memory (not also NPSY 11) | 103b         | _____ Adv Cell Biology                      |
|           |  | BIOL 101a or |   |
| NBIO 123a | _____ Population Genetics/Genomic        | 105b         | _____ Molecular Biology                     |
| NBIO 136a | _____ Comp. Neuroscience                 | BIOL 107a    | _____ Data Analysis & Stats                 |
| NBIO 142b | _____ Sleep                              | BIOL 111a    | _____ Developmental Biology                 |
| NBIO 143b | _____ Developmental Neurobiology         | BIOL 122a    | _____ Molecular Genetics                    |
| NBIO 144b | _____ Drugs                              | BIOL 124b    | _____ Epigenetics                           |
| NBIO 145b | _____ Neuroscience Systems               | BIOL 135b    | _____ The Principles of Biological Modeling |
| NBIO 146a | _____ Neurobio of Human Disease          | BIOL 159a    | _____ Proj Lab Microbiology                 |
| NBIO 147a | _____ Neurogenetics                      | QBIO 110a    | _____ Num. Model. of Bio Systems            |
| NBIO 148b | _____ Cellular Neuroscience              | QBIO 120a    | _____ Quan. Bio. Instr. Lab                 |
| NBIO 150a | _____ Autism                             | CBIO 106b    | _____ Medicinal Enzymology                  |
| NBIO 152a | _____ Pain                               | NPHY 115a    | _____ Dynamical Systems                     |
| NBIO 157a | _____ Proj Lab NeuroBio and Behavior     |              |   |
| NBIO 160a | _____ Cell&Network Mech of Mem           |              |   |

**Group 2 (at least 2)**

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|---------------|--|
| 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 141a     | _____ Stress, Physiology & Health        |
| NPSY 154a     | _____ Human Memory                       |
| NPSY 174b     | _____ Visual Cognition                   |
| 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 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)\*\*\*\*

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

D. Basic Science 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 18a,b, EL 29b, QBIO 120, Project Labs  
 99 a+b as 1 BSE lab(if not used as Grp 3)

LAB REQUIREMENT (3 full semester courses)


ADDITIONAL COURSES (BS = 7; BA = 6)


NOTES:

\* A course taken to satisfy the quantitative method requirement cannot also count as an elective course

\*\* 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