

Name: \_\_\_\_\_ Year: \_\_\_\_\_

Advisor(s): \_\_\_\_\_

Neuroscience majors must *preregister* for all courses they will use to satisfy requirements for the major. You should not assume you will be guaranteed entry into a course during the add/drop period if you did not preregister for it (e.g., you must preregister for NEUR-301 and/or NEUR-351).

**For Advanced Placement in neuroscience, see the following requirements:**

- *Chemistry*: with a Chemistry AP score of 4 or 5, follow the recommendation made during orientation (many students with AP credit still take CHEM-151/155).
- *Math*: you may place out MATH-111 with a score of 4 or 5 on the AB exam or a 3 on the BC exam. In this case, you still need to satisfy the Physics/Mathematics requirement with a higher-level course.
- *Biology*: you may place out of BIOL-191 with a score of 5 on the Biology AP exam. In this case you must substitute BIOL-251 or BIOL-291 for BIOL-191 requirement.

**Neuroscience majors must complete the following requirements:**

**(1) General science requirements:**

**Chemistry:** All of the following:

- CHEM-151/155
- CHEM-161/165
- CHEM-221 (many majors also take CHEM-231)

**Biology:**

- BIOL-191
- *note*: BIOL-181 is optional for Neuroscience, but should be considered by students in their first semester that are pre-med or may major in Biology or Neuroscience but haven't decided yet. Note that some advanced elective courses also require BIOL-181\*

**Statistics:** One of the following:

- STAT-111 -or-
- STAT-135 -or-
- STAT-230 -or-
- PSYC-122

**Physics/Mathematics:** At least two of the following courses:

- PHYS-116, 117, 123, 124
- MATH-111, 121, 211
- If you have Advanced Placement in any of these subjects, take
- at least 4 on AB or 3 on BC) is a prerequisite for CHEM-161/165 and PHYS-117.
- The *Statistics* requirement is separate from this *Physics/Math* requirement and you cannot use a course from one requirement to double-count for the other.

**(2) Introduction to Neuroscience courses**

Neuroscience Majors must take the following two courses:

- NEUR/PSYC-213: Neuroscience: Systems and Behavior (**w/ lab**)
- NEUR/BIOL-214: Neurobiology (**non lab**)
- *Note*: The *NEUR-213* course must be taken in the spring semester of your sophomore year. The *NEUR-214* course may be taken in the fall of either sophomore or junior year but must be completed prior to the end of junior year.

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**(3) Upper-level Behavioral Neuroscience:** One of the following seminar courses:

- NEUR-245 : Systems Neuroscience
- NEUR-317 : Neurobiology of Appetite
- NEUR-325 : Psychopharmacology
- NEUR-356 : Neurophysiology of Motivation

**(4) Upper-level Neurobiology:** One of the following lab courses:

- NEUR-301 : Molecular Neurobiology with laboratory
- NEUR-303 : Molecular Neurobiology: CURE with laboratory
- NEUR-313 : Social Neuroendocrinology with laboratory
- NEUR-351 : Neurophysiology with laboratory

**(5) Upper-level Human Neuroscience:** One of the following courses:

- NEUR-361 : Consciousness and the Brain
- NEUR-367 : Human Neuroscience

**(6) Upper-level Elective:** One additional upper-level elective from the following courses:

- An additional behavioral neuroscience course from item (3) above
- An additional neurobiology course from item (4) above
- An additional human neuroscience course from item (5) above
- NEUR-211 : Cognitive Neuroscience
- NEUR-350 : Neurophysiology without lab
- NEUR-411 : Synapses Seminar
- NEUR-450 : Seminar in Physiology
- BIOL-221 : Developmental Biology (w/ lab)
- BIOL-241 : Genetic Analysis (w/ lab)
- BIOL-260 : Animal Physiology
- BIOL-271 : Microbiology (w/ lab)
- BIOL-281 : \*Animal Behavior (w/ lab)
- BIOL-291 : Cell Structure and Function (w/ lab)
- BIOL-311 : Small Proteins in Antibiotic Resistance (w/ lab)
- BIOL-331 : Biochemistry (w/ lab)
- BIOL-371 : Molecular Genetics (w/ lab)
- BIOL-381 : \*Genome Biology (w/ lab)
- BIOL-391 : Quantitative Imaging (w/ lab)
- PSYC-233 : Cognitive Psychology
- PSYC-234 : Memory
- PSYC-236 : Psychology of Aging
- PSYC-357 : History of Psychiatry
- via petition to the Chair, it may be possible to satisfy this requirement with a Five College course or [study away](#) course.

\*courses listed with an asterisk (\*) require BIOL-181 as a prerequisite

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