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).

COVID-19 Special Statement
Given the challenges posed by the current situation, the Neuroscience program will be reducing the requirements for the major for the classes of 2021 and 2022. Members of these classes will be required to fulfill 2 out of the 3 upper-level requirements (Behavioral, Human, Cellular/Molecular which are sections 3, 4 and 5 below) rather than all three.

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).
- **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 (most majors also take CHEM-231)

- **Biology**: BIOL-191
  - **note**: BIOL-181 is optional for Neuroscience, but should be considered by students in their first year that may major in Biology or Neuroscience but haven't decided yet.

- **Statistics**: One of the following:
  - STAT-111 (formerly MATH-130) -or-
  - STAT-135 (formerly MATH-135) -or-
  - STAT-230 (formerly MATH-230) -or-
  - BIOL-210 -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.
Amherst College Neuroscience Major Checklist

(2) **Introduction to Neuroscience courses:**

Neuroscience Majors must take the following two courses:

- NEUR-213: Neuroscience: Systems and Behavior *(with lab)*
- NEUR-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.

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

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

(4) **Upper-level Cellular/Molecular Neuroscience:** One of the following lab courses:

- NEUR-301: Molecular Neurobiology 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 molecular/cellular neuroscience course from item (4) above
- An additional human neuroscience course from item (5) above
- NEUR-211: Cognitive Neuroscience
- NEUR-350: Neurophysiology without lab
- NEUR-450: Seminar in Physiology
- BIOL-221: Developmental Biology *(w/ lab)*
- BIOL-241: Genetic Analysis *(w/ lab)*
- BIOL-251: Molecular Genetics *(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-331: Biochemistry *(w/ lab)*
- BIOL-381: Genome Biology *(w/ lab)*
- PSYC-233: Cognitive Psychology
- PSYC-234: Memory
- PSYC-236: Psychology of Aging
- PSYC-357: History of Psychiatry