

Neuroscience

Pre-declaration Course Selection Advice

First Semester	Second Semester
BIOL 101	NEURO 201
PSYC 110 or Chem 121*	PSYC 120 or Chem 122*
MATH 125 or 161	Common core (CC) or other elective
First-Year Seminar	CC or other elective

*Chemistry is recommended rather than Psychology for students planning to apply for medical school immediately after college. In that case, second semester should include Psychology 110 and Chemistry 122. See planning sheets for some guidance on schedules.

If a student has Advance Placement credit for Biology, Chem 121/122 should be taken rather than 200 level of Biology.

B.S. Major in Neuroscience

The B.S. Degree in Neuroscience consists of a total of 17 courses; 12 courses in the major plus five collateral Science courses.

Three Foundation Courses:

- Biology 101: General Biology (with lab).
- Psychology 110: Introduction to Psychological Science (with lab).
- Psychology 120: Quantitative Methods.

Four Core Courses:

- Neuroscience 201
- Biology 256: Neurobiology (with lab).
- Psychology 323: Physiological Psychology (with lab).
- Neuroscience 401: Advanced Neuroscience (prerequisites: PSYC 323 & BIOL 256).

Five Elective Courses, at least two from each category:

Category A	Category B
PSYC 203 Design & Analysis	BIOL 212 Developmental Biology w/ lab
PSYC 225 Psychopharmacology	BIOL 213 Comparative Vertebrate Anatomy w/ lab*
PSYC 232 Abnormal Psychology	BIOL 214 Neuroanatomy w/ lab
PSYC 236 Applied Behavior Analysis	BIOL 245 Immunology w/lab*
PSYC 256 Cognitive Psychology	BIOL 251 Human Physiology w/ lab*
PSYC 321 Learning w/lab	BIOL 255 Molecular Genetics w/lab)

PSYC 322 Perception w/ lab	BIOL 310 Aging and Age-Related Diseases
PSYC 324 Comparative Psychology: Animal Behavior w/ lab	BIOL 312 Cell Biology
AGS 201 Introduction to Aging Studies	BIOL 314 Anatomy of Vision
PHIL 225 Philosophy of Mind	BIOL 336 Evolutionary Genetics
PHIL 230 Theories of Knowledge	BIOL 274 Bioinformatics
NEUR 255 Music & the Brain	CM 151 Computational Methods w/lab
NEUR 275 Art, Neuroscience and Consciousness	NEUR 351 (Neurophysiology)
NEUR 351 (Neurophysiology)	CHEM 351 Biochemistry Survey

*requires Biol 102 or equivalent AP credit

One Independent Study (NEUR 391/392), Advanced Research (491/492), or Honors (NEUR 495/496) course may also be used as an elective course.

All majors are required to take the following five additional Science Courses:

- Chemistry 121 and 122: Introductory Chemistry
- Chemistry 221: Organic Chemistry I
- Physics 111 and 112 or Physics 131 and 133

As part of the Common Course of Study, Neuroscience Majors must take Math 125 or 161. Students interested in attending medical school or graduate school are encouraged to take two semesters of Organic Chemistry. Those students interested in graduate school are encouraged to take PSYC 203 as one of their Category A electives.

**B.S. Neuroscience Curriculum Planning Sheet
For students applying immediately to medical school**

Fall	Spring
First Year	
BIOL 101 w/ lab	NEUR 201
CHEM 121 w/ lab*	CHEM 122 w/ lab
MATH 125 or 161	Common core (CC) or other elective
First-Year Seminar	PSYC 110 w/ lab

Fall	Spring
Sophomore Year	
BIOL 256 w/ lab	Category A elective
CHEM 221 w/ lab	CC or other elective
CC or other elective	CC or other elective
PSYC 120	CC or other elective

Fall	Spring
Junior Year	
PSYC 323 w/ lab	Category A elective
Category B elective	CC or other elective
PHYSICS 111 or 131 w/ lab	PHYSICS 112 or 133 w/ lab
CC or other elective	CC or other elective

Fall	Spring
Senior Year	
Category B elective	NEUR 401
CC or other elective	Category A or B elective
CC or other elective	CC or other elective
CC or other elective	CC or other elective

*Chemistry is recommended rather than Psychology for students planning to apply for medical school immediately after college. In that case, second semester should include Psychology 110 and Chemistry 122.

**B.S. Neuroscience Curriculum Planning Sheet
For students wanting to go abroad**

Fall	Spring
First Year	
BIOL 101 w/ lab	NEUR 201
Common core (CC) or other elective	CC or other elective
MATH 125 or 161	CC or other elective
First-Year Seminar	PSYC 110 w/ lab

Fall	Spring
Sophomore Year	
Category B elective	Category A
CHEM 121 w/ lab	CHEM 122 w/ lab
CC or other elective	CC or other elective
PSYC 120	CC or other elective

Fall	Spring
Junior Year	
BIOL 256 w/ lab	Optional Abroad*
CHEM 221 w/ lab	
Category A	
CC or other elective	

Fall	Spring
Senior Year	
PSYC 323 w/ lab	NEUR 401
Category B	Category A or B
PHYSICS 111 or 131 w/ lab	PHYSICS 112 or 133 w/ lab
CC or other elective	CC or other elective

*Student often fulfill CC or other elective requirements as opposed to major requirements while studying abroad.