

# Majoring in Neuroscience at Lafayette

Neuroscience is an interdisciplinary field exploring the development, structure, and behavioral consequences of nervous systems. The B.S. Program in Neuroscience at Lafayette educates students to understand nervous systems from a variety of scientific perspectives. Within the major program, students have the freedom to create their own combination of electives that reflect their particular interests (e.g., behavioral neuroscience or cellular/molecular neuroscience). The major consists of 17 courses distributed among foundation, core, and elective courses (curriculum effective with the class of 2010).

## FOUNDATION COURSES

- BIOL 101 (General Biology I w/ lab)
- PSYC 110 (Introduction to Psychological Science w/ lab)
- PSYC 120 (Quantitative Methods in Psychology)
- CHEM 121 (Introductory Chemistry I w/ lab)
- CHEM 122 (Introductory Chemistry w/ lab)
- CHEM 221 (Organic Chemistry I w/ lab)<sup>1</sup>
- PHYS 111 (Mechanics & Thermodynamics, w/ lab)
- PHYS 112 (Electricity, Magnetism, & Optics, w/ lab)

(Note: As part of the Common Course of Study, Neuroscience Majors *must*

## CORE COURSES

- NEUR 201 (Intro to Neuroscience)
- PSYC 323 (Physiological Psychology w/ lab)
- BIOL 256 (Neurobiology w/ lab)
- NEUR 401 (Advanced Neuroscience)

## MAJOR ELECTIVES

5 total courses, at least 2 from each category below

### Category A

PSYC 203 (Design & Analysis w/ lab)<sup>2</sup>  
PSYC 225 (Psychopharmacology)  
PSYC 232 (Abnormal Psychology)  
PSYC 234 (Adult Development and Aging)  
PSYC 255 (Memory)  
PSYC 321 (Learning)  
PSYC 322 (Perception w/ lab)  
PSYC 324 (Comparative Psychology: Animal Behavior w/ lab)  
PSYC 325 (Cognitive Psychology w/ lab)  
PHIL 250 (Philosophy of Mind)  
NEUR 351 (Neurophysiology)

One Independent Study (NEUR 391/392), Advanced Research (491/492), or Honors (NEUR 495/496) course may also be used as an elective. A Neuroscience research course does not count towards either category.

### Category B

BIOL 212 (Developmental Biology w/ lab)  
BIOL 214 (Neuroanatomy w/ lab)  
BIOL 241 (Genetics)  
BIOL 245 (Immunology w/lab)\*  
BIOL 251 (Human Physiology w/ lab)\*  
BIOL 261 (Molecular Biology w/ lab)  
BIOL 310 (Developmental Neurobiology)  
BIOL 312 (Cell Biology)  
BIOL 314 (Anatomy of Vision)  
CHEM 351 (Biochemistry Survey)  
CM 151 (Computational Methods w/lab)

\*requires Biol 102 or equivalent AP credit

<sup>1</sup>Students interested in pursuing medical school or graduate school in neuroscience are encouraged to take Chem 222.

<sup>2</sup>Students interested in graduate school in neuroscience are encouraged to take Psyc 203 as one of their Category A electives.