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. The major consists of 16 courses distributed among foundation, core, and elective courses (curriculum effective with the class of 2023, with the Class of 2022 being able to choose either the current curriculum or the previous 17 course requirement with Category A & B electives).

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)
- PHYS 111 (Mechanics & Thermodynamics, w/ lab)

(Note: As part of the Common Course of Study, Neuroscience Majors must take MATH 125 or 161)

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 from the approved list (Courses listed from 100-level to 300 level)

- CM 151 Introduction to Computational Science with lab
- Neur 205 Human Machine & Advances in Medical Technology
- Neur 255 Neuroscience of Music
- Neur 275 Art, Neuroscience & Consciousness
- Psyc 203 Design and Analysis I with lab
- Psyc 225 Psychopharmacology
- Psyc 256 Cognitive
- Psyc 232 Abnormal Psychology
- Biol 213 Comparative Vertebrate Anatomy with lab
- Biol 214 Neuroanatomy with lab
- Biol 251 Human Physiology with lab
- Biol 255 Molecular Genetics with lab
- Biol 278 Precision Medicine
- Biol 279 Quantitative Biology
- Phil 225 Philosophy of Mind
- Neur 351 Neurophysiology
- Neur 353 Neuroregeneration
- Psyc 321 Learning
- Psyc 322 Perception with lab
- Biol 310 Aging and Age related diseases
- Biol 314 Anatomy of Vision
- Chem 351 Biochemistry Survey

ONE of the electives may come from a research course listed below:

- Neur 391/391 Independent Study
- Neur 491/492 Advanced Research
- Neur 495/496 Honors Thesis

(Note: Some of the courses may have additional pre-requisites that you will have to complete before enrolling in the course)