

REQUIREMENTS FOR THE MAJOR IN NEUROSCIENCE

The major consists of twelve courses, including nine core courses and three electives from the lists below. Advanced placement credits may not be used to fulfill any of the course requirements for the major. Independent study in neuroscience may be used to fulfill one of the two elective credits. If students place out of **Psychology 101**, twelve courses related to Neuroscience must still be completed.

Note: The information provided below is a listing of required and elective courses for the major in Neuroscience. These courses are offered by other departments and programs within the College. Please refer to the departments of Biology, Chemistry, Mathematics, Physics, and Psychology for further information, including course descriptions, instructors, and semesters when these courses will next be offered.

I. Core Courses

Introductory Level and General Courses

Biology 109a – MCSR, INS. Introductory Biology
or **Biology 102a – MCSR, INS. Biological Principles II**
Chemistry 225a. Organic Chemistry I
Psychology 10b. What’s on Your Mind? An Introduction to the Brain and Behavior
or **Psychology 101b. Introduction to Psychology**
Psychology 252a – MCSR. Data Analysis
or **Mathematics 165a – MCSR. Biostatistics**

Introductory Neuroscience Course

Biology 213a – MCSR, INS. Neurobiology
or **Psychology 218a. Physiological Psychology**

Mid-level Neuroscience Courses

Three of the following:
Biology 253a. Neurophysiology
Biology 266a. Molecular Neurobiology
Psychology 275a. – INS. Laboratory in Behavioral Neuroscience: Social Behavior
Psychology 276a. – INS. Laboratory in Behavioral Neuroscience: Learning and Memory

Advanced Neuroscience Course

One of the following:
Biology 325a. Topics in Neuroscience
Biology 329a. Neuronal Regeneration
Psychology 315. Hormones and Behavior
Psychology 316a. Comparative Neuroanatomy
Psychology 319a. Memory and Brain

II. Three electives may be chosen from the courses listed above (but not already taken) or below:

Biology 101a. - MCSR, INS. Biological Principles I
Biology 212a. - MCSR, INS. Genetics and Molecular Biology
Biology 214a. - MCSR, INS. Comparative Physiology
Biology 217a. - MCSR, INS. Developmental Biology
Biology 224a. - MCSR, INS. Biochemistry and Cell Biology
(same as **Chemistry 231**)
Biology 333a. – Advanced Cell and Molecular Biology
Chemistry 232a. MCSR. Biochemistry (same as Biology 232)

Computer Science 355a. Cognitive Architecture
Mathematics 204a. MCSR. Biomathematics (same as Biology 174)
Physics 104a. – MCSR, INS. Introductory Physics II
Psychology 210b. Infant and Child Development
Psychology 216b. Cognitive Psychology
Psychology 217a. Neuropsychology
Psychology 251b. Research Design in Psychology
Psychology 259b/260b. Abnormal Psychology
Psychology 270b. Laboratory in Cognition

Neuroscience 291a-294a. Intermediate Independent Study
Neuroscience 401a-404a. Advanced Independent Study and Honors