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 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. Neuropsychology*
  - *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]
Courses of Instruction

Biology 329a. Neuronal Regeneration
Psychology 313a. Advanced Seminar in Behavioral Neuroscience
Psychology 315a. 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 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

Philosophy

Lawrence H. Simon, Department Chair
Emily C. Briley, Department Coordinator

Professor: Scott R. Sehon
Associate Professors: Lawrence H. Simon (Environmental Studies), Matthew F. Stuart†
Assistant Professor: Sarah O’Brien Conly
Visiting Faculty: Sarah K. Paul

Requirements for the Major in Philosophy

The major consists of eight courses, which must include Philosophy 111, 112, and 223; at least one other course from the group numbered in the 200s; and two from the group numbered in the 300s. The remaining two courses may be from any level. Courses in which D grades are received are not counted toward the major.