



Behavioral Neuroscience Minor Requirements

Program Director Contact Information:

Dr. Phillip Schatz

Email: pschatz@sju.edu

Office: 222 Post Hall

Telephone: 610-660-1804

Requirements for the Minor

Students complete the Behavioral Neurosciences with six courses: 3 core courses and 3 electives.

Core Courses

The following 3 core courses are required:

- PSY 205 (pre-reqs: PSY 201 or BIO 101) or BIO 412 (pre-reqs: BIO 101, 102, and 201)
- PSY 206 (pre-reqs: PSY 205 or BIO 412)
- PSY 207 (pre-reqs: PSY 205 or BIO 412)

Elective Courses

To ensure the interdisciplinary nature of the program, students wishing to complete the minor must select elective courses offered by at least one participating department outside of their own major.

Approved courses currently offered by the Departments of Biology, Chemistry, Computer Science, Education/Special Education, Interdisciplinary Health Services, Philosophy, Physics, and Psychology are listed below.

Biology

101/101L Cell Biology

401 Animal Behavior

402 Advanced Cell Biology

405 Biochemistry

411 Molecular Genetics

412 Neurobiology

417 Systemic Physiology

Chemistry

210/210L Organic Chemistry I + Lab

215/215L Organic Chemistry II + Lab

340 Biochemistry

430 Mechanisms in Organic Chemistry

480 Inorganic Biochemistry

Computer Science

121 Computer Science II
201 Data Structures
202 Computer Architecture
261 Principles of Programming Languages
342 Computer Vision
362 Intro to Artificial Intelligence

Education/Special Education

SPE 160 Introduction to Special Education
SPE 319 Assessment: Identification and Progress Monitoring
SPE 339 Educating Students with Low Incidence Disabilities

Interdisciplinary Health Services

110 Psychological Aspects of Health, Illness & Disability
253 Nutrition: Health and Disease
263 Theories of Addiction & Addictive Behavior
465 Introduction to Autism Spectrum Disorders
458 Epidemiology

Philosophy

322 Philosophy of Science
473 Science, Mind and Philosophy

Physics

101/101L General Physics I + Lab
105/105L University Physics I + Lab
110 Physics: Concepts and Applications
253 Survey of Nanotechnology
261 Electronics I
419 Biophysics
421 Physics of Fluids

Psychology

201 Biological Basis of Behavior
210 Research Methods
220 Sensation and Perception
221 Animal Learning and Memory
222 Neuropsychology
224 Psychopharmacology
225 Comparative Animal Behavior
226 Psychology of Emotion

Students may petition the Behavioral Neurosciences Advisory Board to receive credit for courses not listed above. Approval is based on the following:

- Coursework includes a substantive treatment of brain/behavior relationships.
- Coursework includes a substantive treatment of methodology, techniques, and approaches relevant to neuroscience.
- Coursework in other ways contributes to an understanding of the relationship between nervous systems and behavior or other issues typically addressed by neuroscientists.
- The student will typically be required to write a research paper or other substantive project, the focus of which is a topic within the broad discipline of behavioral neuroscience, as part of his/her coursework.