

NEUROPSYCHOLOGY

Explore the human brain to fuel research, innovation, and discovery

Channel your curiosity about the human brain and behavior in our cutting-edge Neuropsychology program. Fusing core components of biology and psychology, this program prepares students for an impactful career in the growing field of neuroscience.

You'll explore the concepts behind normal human behavior, from learning and memory to sensation and perception. You'll also examine complex neurological conditions like dementia, addiction and mood and movement disorders.

Guided by faculty experts in our innovative research labs, you'll gain the empirical, analytic and communication skills that will make you stand out in your career – or in your application to graduate or medical school.

Programs

- [Neuropsychology Major \(B.S.\)](#)

Courses

Neuropsychology (NPSY)

NPSY 600 - Behavioral Neuroscience

Credits: 4

This course is an introduction to behavioral neuroscience, with a focus on clinical applications. The course begins with an in-depth overview of the structure and function of neurons and then moves into topics such as sensory processing, psychopathology, and cognition. Students will learn about neural networks that give rise to these behaviors, and how the brain interacts with other organs. Additionally, students will learn through case studies.

Prerequisite(s): PSYC 401 with a minimum grade of D-.

Grade Mode: Letter Grading

NPSY 700 - Neuroimaging: Theory and Application

Credits: 4

Neuroimaging techniques are commonly used in both clinical and research settings. This course introduces students to the fundamental principles governing neuroimaging. Topics covered include neuroanatomy and neurobiology reviewed in the context of different neuroimaging methods such as computed tomography, magnetic resonance imaging, electroencephalogram, and position emission tomography. We will review the various methods for processing structural, functional, and multimodal imaging datasets. Students will also gain hands on experience processing neuroimaging data during computer lab simulations.

Prerequisite(s): PSYC 531 with a minimum grade of D- or NPSY 600 with a minimum grade of D-.

Grade Mode: Letter Grading

NPSY 701 - Neuropsychology Capstone Project

Credits: 4

Under the direction of a faculty mentor, students will perform a research project in one of the labs within the Life Sciences department. Students will work with their mentor to design a research project, which will be approved by the course instructor. During class students will present their projects and be provided resources on how to navigate setbacks. Additionally, students will learn about: research ethics, review statistical methods, poster & manuscript preparation, and careers in neuroscience.

Prerequisite(s): PSYC 402 with a minimum grade of D- and PSYC 502 with a minimum grade of D- and (PSYC 531 with a minimum grade of D- or NPSY 600 with a minimum grade of D-).

Grade Mode: Letter Grading

NPSY 795 - Independent Study

Credits: 1-4

Arranged by the student with a neuropsychology, psychology or biology faculty sponsor. Learner/sponsor contract required. Minimum time commitment: three hours per credit per week.

Prerequisite(s): PSYC 402 with a minimum grade of D- and PSYC 502 with a minimum grade of D- and NPSY 600 with a minimum grade of D-.

Repeat Rule: May be repeated for a maximum of 8 credits. May be repeated up to 1 time.

Grade Mode: Letter Grading

NPSY 798 - Capstone

Credits: 0

This is a zero credit course to indicate on the transcript that the capstone requirement is fulfilled.

Grade Mode: Credit/Fail Grading

Faculty

[Neuropsychology Faculty](#)