

NEUROPSYCHOLOGY (NPSY)

Course numbers with the # symbol included (e.g. #400) have not been taught in the last 3 years.

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