FALL 2017

PSY 160JS
Title: Mindfulness: Science & Practice
Description: Worldwide interest in mindfulness is growing exponentially. Every year, hundreds of scientific papers report evidence of its benefits. But what exactly is mindfulness? How does it work? Does it have any downsides? This course offers a systematic introduction to the science and practice of mindfulness, carefully reviewing the best research and considering how it applies to students’ personal and professional development.
Pre-requisites: Psychology & Biopsychology full majors only, including Interdisciplinary majors.

WINTER 2018

PSY 160SK
Title: An Examination of Key Constructs in the Psychological & Brain Sciences
Description: Since Psychologists reopened the “black box” of the mind in the early 1960s, mental state and mental faculty terms have proliferated. They routinely are used to motivate experiments and explain findings. However, a careful analysis of these terms is hard to find. We thus run the risk of populating the mind with entities that fail to adequately represent its workings. In this course we take aim at several key constructs found in contemporary Psychology – e.g., mind, self, memory, consciousness – and subject them to empirical and logical analysis. The result is that many of our favorite terms are found to be in need of serious and sustained conceptual analysis.
Pre-requisites: Psychology & Biopsychology full majors only, including Interdisciplinary majors.
Instructor: Stan Klein
Course Time: TBD
Location: TBD

PSY 163EJ
Title: Hormones and Cognition
Description: Neuroscientists have plumbed the depths of the mind and brain in extraordinary detail, but occasionally we forget that the brain is part of a larger, integrated biological system. One example of this “whole-brain, whole-body” level of integration is the interaction between hormone-producing organs in the body (e.g. gonads) and the nervous system. For example, estrogen receptors are found throughout the entire brain, which hints at the powerful role this hormone plays in shaping brain function and, ultimately, behavior. This course will introduce students to the enormous impact that hormones have on brain structure, function and cognition.
Pre-requisites: Psychology & Biopsychology full majors only, including Interdisciplinary majors.
Instructor: Emily Jacobs
Course Time: R 3:00- 5:50pm
Location: Brodai 1640

SPRING 2018

PSY 163SG
Title: Volitional Action: The Science of Choice, Intention, and Movement
Description: This course examines the cognitive processes and underlying neural systems that allow humans to generate complex, goal-oriented behavior. Action in the world requires the transformation of a desired outcome into a specific set of physical movements. This course examines key concepts that allow this transformation to take place. These include an analysis of factors influencing choice among similar actions and the formation of motor intentions. The selection and planning of possible movements as well as the chaining of multiple actions together to accomplish a distal goal are considered. The reliance on an action vocabulary, allowing for planning in advance, is assessed. The course will review core concepts behind the control of movement, including the functional anatomy of movement generation, the merging of sensory and motor information into common reference frames the coordination of behavior across multiple joints and limbs. Complementing this is the analysis of motor adaptation, the ability to alter performance in the setting of noise in an ever-changing physical body. Finally, the brain mechanisms that underlie the progression from new to expert skills are assessed. The course will survey a range of behavioral paradigms as well as methods of cognitive neuroscience and neurophysiology that provide an exciting window into the cognitive architecture and functional anatomy of action planning

Pre-requisites: Psychology & Biopsychology full majors only, including Interdisciplinary majors.

Instructor: Scott Grafton
Course Time: TBA
Location: TBA

PSY 163MG

Title: Systems Neuroscience
Description: Presentation and discussion of current research in systems neuroscience. This course will focus on how neural circuits mediate specific behaviors, drawing on research from a range of species and preparations. This course will also serve as an introduction to the methodological approaches used in systems neuroscience, including electrophysiology, cellular imaging, and optogenetics.

Pre-requisites: Psychology & Biopsychology full majors only, including Interdisciplinary majors.

Instructor: Michael Goard
Course Time: TBA
Location: TBA

At this time, no further information is known by Advisors regarding Special Topics courses.
Space is limited, please enroll on GOLD or use the wait list to reserve your possibility to add.
(Special Topics are typically not taught in Summer Sessions.)

Fall 2018 Topics will be updated after teaching schedules are produced May 2018.
Please do not email advisors, but check back here for updates!