PSYCH 114 - BIOLOGY OF LEARNING (3 UNITS)

(Taken from the UC Berkeley Course Guide (http://guide.berkeley.edu))

COURSE OVERVIEW

SUMMARY

The biology of learning and neural plasticity is critical to our understanding of development, culture, behavioral change, uniqueness of individuals, and limits to an organism's potential. We will study experimental investigations of behavior and neurobiology at the cellular and circuit level to get a basic introduction to what is known and unknown about learning and neural plasticity. Topics may include associative learning, habit formation, fear, memory systems, neurons, synapses, dendritic spines and axonal boutons, LTP, and adult neurogenesis. We will discuss these topics in the context of normal development and disease. Students will become familiar with thinking about the brain at the level of circuits, cells, synapses, and proteins.

PREREQUISITES

None

Spring only

WORKLOAD

TIME COMMITMENT

2 hours of lecture and 1 hour of discussion per week.

COLLEGE OF CHEMISTRY PEER SERVICES

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lang=en) students/peer-

advising