PSYC 345 : Biopsychology

A. Course Description

Credits: 5

Prerequisites: PSYC 100 General Psychology or equivalent with instructor's consent.

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: Goal 03 - Natural Science , Goal LS - Upper Division Liberal Studies

This course examines the biological basis of behavior. Topics include structure and function of the nervous system, psychopharmacology, electrophysiology, and higher order function of the nervous system. Laboratories include brain dissection, nerve histology, electrophysiology and behavioral experiments.

B. Course Effective Dates: 08/24/2002 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Apply the core concepts from the material to societal issues and provide alternative explanations and approaches for research results.
2. Apply the knowledge of science to theories of brain and behavior from both a contemporary and historical perspective.
3. Communicate experimental findings in both oral and written form.
4. Demonstrate an understanding of the scientific process, from the formulation of hypotheses, development of methodologies, collection and interpretation of data, and presentation of research results.
5. Learn and demonstrate an understanding of theories of biological influences on psychology.

E. Learning Outcomes (MN Transfer Curriculum)

Goal 03 - Natural Science

1. Formulate and test hypotheses by performing laboratory, simulation, or field experiments in at least two of the natural science disciplines. One of these experimental components should develop, in greater depth, students' laboratory experience in the collection of data, its statistical and graphical analysis, and an appreciation of its sources of error and uncertainty.
2. Demonstrate understanding of scientific theories.
3. Communicate their experimental findings, analyses, and interpretations both orally and in writing.
4. Evaluate societal issues from a natural science perspective, ask questions about the evidence presented, and make informed judgments about science-related topics and policies.

Goal LS - Upper Division Liberal Studies

None

G. Special Information

None