PSY 4450: Behavioral Neuroscience

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 0

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

A neurological study of behavior focusing on the neurons, neurotransmitters, neuronal circuits, and basic biology of the nervous system. The beginning of the course will focus on building an understanding of the structure and function of nerve cells, and neuro and hormonal chemical transmission within the nervous system. The rest of the course will focus on how these biological processes lead to normal and pathological behavior. Prerequisite(s): PSY 1100.

B. COURSE EFFECTIVE DATES: 08/21/2017 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. A neurological study of behavior focusing on the neurons, neurotransmitters, neuronal circuits, and basic biology of the nervous system. The beginning of the course will focus on building an understanding of the structure and function of nerve cells, and neuro and hormonal chemical transmission within the nervous system. The rest of the course will focus on how these biological processes lead to normal and pathological behavior. Prerequisite(s): PSY 1100.

2. Anxiety disorders, Autistic disorders, ADD, and stress disorders

3. Drug Abuse

4. Learning and memory

5. Psychopharmacology

6. Schizophrenia and the affective disorders

7. Sleep and Biological rhythms

8. Structure of the nervous system

D. LEARNING OUTCOMES (General)

1. Learn the major questions within the fields of behavioral neuroscience.

2. Think critically about the major findings within behavioral neuroscience.

3. Apply their understanding of behavioral neuroscience to everyday experiences.

4. Develop the ability to communicate key findings discussed in class and book.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted