

# Minnesota State University Moorhead

## PSY 345: Brain and Behavior

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites:

This course requires the following prerequisite

PSY 113 - General Psychology

Corequisites: None

MnTC Goals: None

Basic biological facts and their relationship to behavior. An analysis of the senses, hormonal systems, brain and peripheral nervous system will be included. Students must have earned six credits in psychology courses prior to enrolling in this course.

**B. COURSE EFFECTIVE DATES:** 02/02/2020 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Origins of Behavioral Neuroscience
2. Structure & Functions of Cells in the Nervous System
3. Structure of the Nervous System
4. Psychopharmacology
5. Methods and Strategies of Research
6. Vision
7. Auditory, Body and Chemical Senses
8. Sleep and Biological Rhythms
9. Reproductive Behavior
10. Emotion
11. Ingestive Behavior
12. Learning and Memory
13. Human Communication
14. Neurological Disorders
15. Schizophrenia, the Affective Disorders, and the Anxiety Disorders
16. Autistic, Attention-Deficit/Hyperactivity, Stress, and Substance Abuse Disorders

**D. LEARNING OUTCOMES (General)**

1. Identify major historical figures and landmark studies in the field.
2. Explain of the role of the nervous system in learning and memory, communication, neurological, and mental disorders.
3. Identify and describe the cells that make up the nervous system.
4. Differentiate the main structures and functions of the nervous system.
5. Identify major neurotransmitter systems.
6. Articulate and apply critical thinking to the relationships between drugs and behavior.
7. Locate, digest and evaluate research methods in physiological psychology.
8. Identify structure and function of the major sensory systems and control of movement.
9. Explain the role of the nervous system in sleep, reproductive behavior, emotions, and stress

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

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted