PSY 4459: Sensation and Perception

A. COURSE DESCRIPTION

Credits: 4
Lecture Hours/Week: *.*
Lab Hours/Week: *.*
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None

An in-depth introduction, including the topics of the nervous system, electrochemical and neurochemical bases of behavior, vision, audition, somatic and chemical senses, movement, emotion, and cognition. Prerequisites: PSY 1100, PSY 3401, and PSY 3402, or consent of instructor.

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

C. OUTLINE OF MAJOR CONTENT AREAS

1. Color Perception
2. Introduction to Perception: Psychophysics
3. Methods & Strategies of Research
4. Perceiving Loudness & Auditory Scene Analysis
5. Perceiving Motion
6. Perceiving Objects
7. Perceptual Constancy
8. Physiological Psychology: Philosophical & Ethical Issues
9. Psychopharmacology
10. Signal Detection Theory
11. Space & Size Perception
12. Structure & Functions of Cells of the Nervous System
14. Vision: Receptors and Neural Processing
15. Visual Processing
D. LEARNING OUTCOMES (General)
   1. Understand the structure and function of the nervous system and the cells that make it up.
   2. Be able to critically evaluate and analyze a problem.
   3. Be able to relate theory and data and effectively communicate ideas.
   4. Understand the methodology in physiological and perceptual research.
   5. Be able to apply concepts and principles to relatively new situations.
   6. Be able to integrate and critically evaluate information from a number of different areas.
   7. Gain appreciation of and critical concern for ethical issues in research and applications.
   8. Understand the ties between physiology and perceptual experience.
   9. Gain knowledge of data demonstrating and related to perception as an active, constructive process.
  10. Gain knowledge of research findings, concepts, and basic terminology.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted