

Psychology 107

Psychological Psychology

3 units; 3 hours lecture

Recommended Preparation: Psychology 101 or Psychology 101H with a minimum grade of C

Degree applicable Transfer CSU, UC

This course focuses on physiological factors in human development, behavior, and experience. Fundamental topics include consciousness, language, emotion, memory, and sensation/perception. Clinical topics include Sexual Disorders, Bipolar Disorder, Schizophrenia, Post-Traumatic Stress Disorder, Autism, Alzheimer's disease, and traumatic brain injury. Studies of both humans and other animals are evaluated and organized by scientific and clinical standards.

Course Objectives:

1. Evaluate the historical roots of physiological psychology, including topics from philosophy, evolution, and genetics.
2. Categorize the structures and functions of nervous system cells.
3. Analyze the relevant factors in the pharmacology of psychoactive drugs.
4. Identify and distinguish basic neuroanatomical structures and concepts.
5. Organize and explain the psychophysical, physiological, and phenomenological details pertaining to vision.
6. Recognize and describe the most basic details of at least one nonvisual sensory system.
7. Recognize and evaluate the nervous system structures and neurotransmitters most relevant to the control of movement.
8. Distinguish and analyze sleep and wakefulness, theories of sleep and dreaming, and sleep disorders.
9. Analyze the social, neural, and hormonal factors relevant to reproductive behavior.
10. Distinguish and assess the phenomenological, behavioral, physiological, and social factors relevant to emotions such as fear and aggression.
11. Contrast and explain the specific environmental, neural, and hormonal factors relevant to hunger and thirst.
12. Explain and analyze learning and memory in terms of the neural mechanisms of synaptic plasticity.
13. Evaluate the concepts and data relating to cerebral lateralization, especially as they are applied to language and its disorders.
14. Differentiate between the symptoms and pathophysiologies of brain tumors, dementias, cerebrovascular accidents, pervasive developmental disorders, and infectious disease disorders.
15. Differentiate and describe the symptoms and pathophysiologies of psychotic, mood, sexual, and anxiety disorders.

Student Learning Outcomes (SLO):

1. Logic of the Scientific Method

On examination (e.g., m/c, T/F, fill-in, matching, essay), written essay, research paper, and/or oral presentation, students will be able to explain and evaluate various types of data relevant to the biological basis of behavior (e.g., experimental versus non-experimental, human versus infrahuman, basic versus applied).

2. Fundamental Principles

On examination (e.g., m/c, T/F, fill-in, matching, essay), written essay, research paper, and/or oral presentation, students will be able to identify and explain basic nervous system structures (e.g., neural and glial cells; brain stem and forebrain; meninges and blood-brain barrier) and functions (e.g., resting and action potentials; excitatory and inhibitory postsynaptic potentials; sensory transduction; agonistic and antagonistic drug effects).

3. Everyday Application

On examination (e.g., m/c, T/F, fill-in, matching, essay), written essay, research paper, and/or oral presentation, students will be able to apply fundamental psycho-psychological principles in their efforts to understand everyday life experiences (e.g., weight control, sexual behavior, insomnia; coping with cognitive decline).

ADA Statement:

El Camino College is committed to providing educational accommodations for students with disabilities upon the timely request by the student to the instructor. A student with a disability, who would like to request an academic accommodation, is responsible for identifying herself/himself to the instructor and to the Special Resource Center. To make arrangements for academic accommodations, contact the Special Resource Center.

Student Code of Conduct

<https://www.elcamino.edu/administration/board/2019-policies/AP%205500%20Student%20Conduct%20.pdf>

Student Rights and Grievances Procedure 5530

<https://www.elcamino.edu/administration/board/boarddocs/AP%205530%20STUDENT%20%20RIGHTS%20AND%20GRIEVANCES.pdf>