COURSE DETAIL

NEUROSCIENCE: EXPLORING THE BRAIN
Country Korea, South
Host Institution Yonsei University
Program(s) Yonsei University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 121
UCEAP Course Suffix
UCEAP Official Title NEUROSCIENCE: EXPLORING THE BRAIN
UCEAP Transcript Title NEUROSCIENCE: BRAIN
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description
This class provides a systematic introduction to the mammalian nervous system, emphasizing the structural and functional organization in the field of neuroscience. This course begins with the study of nerve cells, including their structure, the propagation of nerve impulses and transfer of information between nerve cells, and neurotransmitters. Then we move to brain circuit, which control sensory perception, vigilance, emotion, learning and memory. Topics include neuroscience: past, present, and future, neurons and glia, neuronal membrane at rest, action potential, synaptic transmission, neurotransmitter systems, structure of the nervous system, somatic sensory system, the chemical senses, the central visual system, chemical control of the brain and behavior, motivation, sex and the brain, brain mechanisms of emotion, brain rhythms and sleep, the resting brain, attention, and consciousness, mental illness, wiring the brain, and memory systems. Text: Connors and Paradiso, NEUROSCIENCE: EXPLORING THE BRAIN. Prerequisites: Biology, Physiology

Language(s) of Instruction
English

Host Institution Course Number
BTE3105

Host Institution Course Title
NEUROSCIENCE: EXPLORING THE BRAIN

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Life Science and Biotechnology

Course Last Reviewed

2024-2025

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