

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 Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Life Science and Biotechnology

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