

## 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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