COURSE DETAIL

ISSUES IN COGNITIVE NEUROSCIENCE

Country
Israel

Host Institution
The Hebrew University of Jerusalem

Program(s)
Explore Israel,Hebrew University of Jerusalem

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Psychology Biological Sciences

UCEAP Course Number
118

UCEAP Course Suffix

UCEAP Official Title
ISSUES IN COGNITIVE NEUROSCIENCE

UCEAP Transcript Title
COGNITIVE NEUROSCI

UCEAP Quarter Units
4.50

UCEAP Semester Units
3.00

Course Description

This is a course in Cognitive Neuroscience in which various disciplines (such as psychology, biology, physics, philosophy, medicine, and more) meet in a joint effort to understand the most remarkable mechanism in nature: the human brain. The first part of the course involves a brief historic overview on the methodology used to learn about brain functions and specializations with an emphasis on the novel methods characterizing neuroscience research. The remainder of the course sheds light on sensation and perception, namely the flow of information from the outside world into our inside world, and about behavior and motion, specifically the flow of information from the inside world back to the external environment. The course covers a wide variety of cognitive functions, from basic perception of color, touch, and sound, to higher functions such as object representation, emotion, and consciousness. In each part of the course, students explore neurological cases, experiments, and studies that have made great advances in the specific field with a special focus on how neuroscience research helped in significantly advancing the human brain is conceptualized. During the course, students gain an in-depth understanding of cutting-edge studies in neuroscience and deal with the most acute questions in the field, such as: How does the brain represent stimuli from the different senses? How can we efficiently act in our environment? How much can the brain change its functioning or even regain lost functionalities through our lifetime? The course also explores studies and information in order to separate knowledge from theory and propose questions for further scientific research.

Language(s) of Instruction
English

Host Institution Course Number
48753

Host Institution Course Title
ISSUES IN COGNITIVE NEUROSCIENCE

Host Institution Course Details

Host Institution Campus Rothberg International School
Host Institution Faculty
Host Institution Degree
Host Institution Department Psychology and Cognitive Sciences
Course Last Reviewed

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