COURSE DETAIL

COGNITIVE NEUROSCIENCE: FROM SENSATION TO PERCEPTION

Country
Netherlands

Host Institution
Maastricht University - Center for European Studies

Program(s)
Biological and Life Sciences,Biological and Life Sciences, Maastricht,Public Health and Pre-Med

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Biological Sciences

UCEAP Course Number
115

UCEAP Course Suffix

UCEAP Official Title
COGNITIVE NEUROSCIENCE: FROM SENSATION TO PERCEPTION

UCEAP Transcript Title
SENSATION & PERCPTN

UCEAP Quarter Units
6.00

UCEAP Semester Units

4.00

Course Description

This course enables students to understand the basic physiologic principles that underlie visual and auditory perception. The course introduces the sensory systems that are responsible for vision and hearing in humans. Central topics include the nature of the stimulus (physical attributes such as amplitude and frequency, and perceptual attributes such as intensity and color), the transduction process (the transformation of a physical stimulus into a neural signal leading to a subjective experience), the functional neuroanatomy of the human sensory system (the organization of sensory neurons into functional maps, columns, and pathways), and mechanisms for object perception (the organization of sensory features into meaningful percepts, for example, a face in a crowd or speaker at a loud party). Finally, the course introduces psychophysical and neuroscientific methods designed for measuring perception.

Language(s) of Instruction
English

Host Institution Course Number
NEU2001

Host Institution Course Title
COGNITIVE NEUROSCIENCE: FROM SENSATION TO PERCEPTION

Host Institution Campus
Maastricht University

Host Institution Faculty

Host Institution Degree

Host Institution Department
Maastricht Science Program

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