# 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 Course Details**

**Host Institution Campus**
Maastricht University

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Maastricht Science Program

**Course Last Reviewed**

Print