

## COURSE DETAIL

### THE COGNITIVE NEUROSCIENCE OF ATTENTION

**Country**

United Kingdom - Scotland

**Host Institution**

University of Edinburgh

**Program(s)**

University of Edinburgh

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Psychology

**UCEAP Course Number**

100

**UCEAP Course Suffix****UCEAP Official Title**

THE COGNITIVE NEUROSCIENCE OF ATTENTION

**UCEAP Transcript Title**

COG NEUROSCI ATTN

**UCEAP Quarter Units**

8.00

**UCEAP Semester Units**

5.30

## **Course Description**

This course aims to introduce the cognitive and neural mechanisms of attention. Current theories of attention will be discussed considering evidence from a variety of neuroscience methods (from single neurons recordings to functional imaging techniques). The course will present the neural mechanisms underlying different varieties of attentional processes together with the links between attention and other cognitive functions. This series of lectures will begin with an introduction to the basic methods of Cognitive Neuroscience and the anatomical basis of perception. The basic questions and controversies in research on attentional processes will be discussed together with an overview of selective attention. The course also aims to teach the different mechanisms responsible for the spatial orienting of attention including the behavioral and neuroimaging evidence for distinct top-down and bottom-up control attentional systems. The topics covered will include the neuropsychological syndromes related to disorders of spatial attention (neglect and extinction) and the crossmodal links in spatial attention. In addition we will discuss how attention can bind different visual features into coherent objects as well as the concept of object-based attention. Finally, the links between attention and action will be discussed.

## **Language(s) of Instruction**

English

## **Host Institution Course Number**

PSYL10139

## **Host Institution Course Title**

THE COGNITIVE NEUROSCIENCE OF ATTENTION

## **Host Institution Campus**

University of Edinburgh

## **Host Institution Faculty**

## **Host Institution Degree**

## **Host Institution Department**

Psychology

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