

## COURSE DETAIL

### COGNITIVE NEUROSCIENCE: INSIGHTS INTO BRAIN PLASTICITY 4H

**Country**

United Kingdom - Scotland

**Host Institution**

University of Glasgow

**Program(s)**

University of Glasgow

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Psychology

**UCEAP Course Number**

164

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

COGNITIVE NEUROSCIENCE: INSIGHTS INTO BRAIN PLASTICITY 4H

**UCEAP Transcript Title**

COG NEUROSCI/BRAIN

**UCEAP Quarter Units**

4.00

**UCEAP Semester Units**

2.70

## Course Description

This course surveys the paradoxical (sometimes productive) neuro-psychological phenomena that can be observed after lesions of the central or peripheral nervous system, or by non-invasive (transcranial) brain stimulation. These phenomena contrast with the more common functional deficits of brain lesions or brain stimulation, and are used as windows to detail current concepts in cognitive neuroscience, brain plasticity, and rehabilitation. Each lecture begins with case descriptions of patients with paradoxical (sometimes productive) effects of stimulation/lesions on behavior. Examples include hyper-attention; an anarchic hand; the experience of leaving one's own body; or the integration of phantom limbs into one's own body scheme. The lectures explore how these phenomena fit or inform models of cognitive processes and plasticity in different domains (e.g. attention, motor control, interhemispheric interactions, multisensory integration) and point to implications for neurorehabilitation.

### Language(s) of Instruction

English

### Host Institution Course Number

PSYCH4018

### Host Institution Course Title

COGNITIVE NEUROSCIENCE: INSIGHTS INTO BRAIN PLASTICITY 4H

### Host Institution Campus

### Host Institution Faculty

School of Psychology and Neuroscience

### Host Institution Degree

### Host Institution Department

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