

COURSE DETAIL

ACTION

Country

Netherlands

Host Institution

Maastricht University - Center for European Studies

Program(s)

Psychology and Neuroscience, Maastricht

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Psychology Health Sciences

UCEAP Course Number

141

UCEAP Course Suffix

B

UCEAP Official Title

ACTION

UCEAP Transcript Title

ACTION

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

In this course, students investigate how the brain is organized to produce actions that serve particular purposes, focusing primarily on voluntary actions. Such actions involve a motivational component, but also cognitive considerations, attention choices, and motor options. For each of these components, decisions must be made. Students explore the different parts of the brain involved in these decisions, in close collaboration with subcortical structures such as basal ganglia. The corresponding practical for this course is Neuronal Basis of Decision Making where students gain hands-on experience with and reflect critically on (a) the selection and administration of tasks that are used to measure these cognitive processes and (b) the analyses of data sets obtained by using neuroimaging techniques (like EEG). During the practical, students are provided with tests and EEG data sets and work in small groups to analyze the EEG data. Questions raised during the practical are: Which steps are needed while analyzing neuroimaging data? Do different brain states induce different decision-making behaviors? How are differences in neuroimaging data or test performance examined? Students also perform statistical analyzes on EEG data sets and write a brief report.

Language(s) of Instruction

English

Host Institution Course Number

IPN3012B + IPN3156

Host Institution Course Title

ACTION

Host Institution Campus

Maastricht University

Host Institution Faculty

Faculty of Psychology and Neuroscience

Host Institution Degree

Host Institution Department

Center for European Studies

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