

COURSE DETAIL

COMPUTATIONAL AND COGNITIVE NEUROSCIENCE

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 Biological Sciences

UCEAP Course Number

104

UCEAP Course Suffix**UCEAP Official Title**

COMPUTATIONAL AND COGNITIVE NEUROSCIENCE

UCEAP Transcript Title

COMP & COG NEURO

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The course Computational and Cognitive Neuroscience presents an overview of the core topics in cognitive and biological psychology. These topics include (human) perception, learning, memory, planning, problem solving, reasoning, language, speech, and action. Both the functional and neuroanatomical foundations of cognitive faculties are addressed. Several models of cognition and theories of brain function that are of relevance to knowledge engineering are outlined. Several skills trainings are given to train understanding in biological functioning of neuronal communication and functioning of neural networks and genetic algorithms.

Language(s) of Instruction

English

Host Institution Course Number

KEN1210

Host Institution Course Title

COMPUTATIONAL AND COGNITIVE NEUROSCIENCE

Host Institution Course Details

<https://courserepository.maastrichtuniversity.nl/p/program/EN/9501>

Host Institution Campus

Maastricht University

Host Institution Faculty

Center for European Studies

Host Institution Degree

Host Institution Department

Advanced Computing Sciences

Course Last Reviewed

2025-2026

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