COURSE DETAIL

DEVELOPMENTAL 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 Health Sciences Biological Sciences

UCEAP Course Number
140

UCEAP Course Suffix

UCEAP Official Title
DEVELOPMENTAL COGNITIVE NEUROSCIENCE

UCEAP Transcript Title
DEV COGN NEUROSCI

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

Study the development of cognition through a neuroscientific lens, examine how the nervous system starts out wired for every possible contingency to eventually prune (tune) itself towards an efficient functioning for the environment it resides it, study the neural network structure and functioning of the brain, its common properties that support efficient cognitive functioning, and how disruptions to these networks can impair cognition. The course also covers the theory of neuroplasticity, focusing on the role of the brain’s lifelong ability to rewire itself. In addition, study mirror neurons, atypical developmental processes (including autism, schizophrenia, and trauma), and the intersection between developmental cognitive neuroscience and society. A mandatory field trip to Amsterdam is included, where the Van Gogh museum is visited to study Van Gogh’s art as a clinical case and experience immediate neuroplasticity first-hand by dining in complete darkness during a three-course meal. Motivated and dedicated students have the opportunity to co-author a paper with the course coordinator for potential publication in well-respected journals (topics of interest can be discussed). Students should have completed at least two Psychology courses and should be interested in brain development and neuroscientific methods that can be used to uncover developmental processes.

Language(s) of Instruction
English

Host Institution Course Number
PNE2007

Host Institution Course Title
DEVELOPMENTAL COGNITIVE NEUROSCIENCE

Host Institution Course Details
https://courserepository.maastrichtuniversity.nl/p/program/EN/CES__PNE

Host Institution Campus
Maastricht University

Host Institution Faculty Center for European Studies
Host Institution Degree
Host Institution Department
Course Last Reviewed 2026-2027

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