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
A

UCEAP Official Title
DEVELOPMENTAL COGNITIVE NEUROSCIENCE

UCEAP Transcript Title
DEV COGN NEUROSCI

UCEAP Quarter Units
8.50

UCEAP Semester Units

5.70

Course Description

This version of the Developmental Cognitive Neuroscience includes an Independent Study Project (ISP) done under the direction of the instructor. The minimum reading is between 20 and 25 articles from established academic periodicals/magazines. The ISP is 10-12 pages and counts for 1/3 of the overall grade for the course. In this course, students learn to use neuroscience methods to study the cognitive development of infants, children, and adolescents. The course begins with the various methods used in developmental cognitive neuroscience, such as pediatric and infant MRI, EEG, and fNIRS. In this context, students uncover and discuss the benefits and challenges of each approach and the feasibility of studying different age ranges. The course then examines typical brain development as assessed with in vivo MRI (including trajectories of white & gray matter over the life span). Next, are more specific aspects of cognitive development such as the development of visual processes where students learn how learning to read affects the brain and how regions involved in face processing develop throughout childhood to support important social functions such as face recognition. Topics are approached using a mix of formats including active participation, working in subgroups, presentations, short lectures, and videos.

Language(s) of Instruction
English

Host Institution Course Number
PNE2007

Host Institution Course Title
DEVELOPMENTAL COGNITIVE NEUROSCIENCE

Host Institution Course Details
https://www.maastrichtuniversity.nl/education/course-finder?search=PNE2007

Host Institution Campus Maastricht University
Host Institution Faculty Center for European Studies
Host Institution Degree
Host Institution Department
Course Last Reviewed 2022-2023

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