

COURSE DETAIL

COMPUTATIONAL NEUROSCIENCE

Country

United Kingdom - Scotland

Host Institution

University of Edinburgh

Program(s)

University of Edinburgh

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

163

UCEAP Course Suffix**UCEAP Official Title**

COMPUTATIONAL NEUROSCIENCE

UCEAP Transcript Title

COMPUTATIONAL NEURO

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course focuses on computation in the nervous system. Students are introduced to basic neuroscience concepts, learn about how computational models are used to simulate processes in the brain, and learn about theories for how the brain processes information and performs computations. Topics include an introduction to basic neuroscience concepts, models of neurons, neural encoding, neural decoding, information theory, network models, and plasticity/learning. The course is delivered through lectures and computer labs.

Language(s) of Instruction

English

Host Institution Course Number

INFR11209

Host Institution Course Title

COMPUTATIONAL NEUROSCIENCE

Host Institution Course Details

<http://www.drps.ed.ac.uk/23-24/dpt/cxinfr11209.htm>

Host Institution Campus

Host Institution Faculty

School of Informatics

Host Institution Degree

Host Institution Department

Course Last Reviewed

2023-2024

[Print](#)