

COURSE DETAIL

NEURAL INFORMATION PROCESSING

Country

Australia

Host Institution

University of Sydney

Program(s)

University of Sydney

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Health Sciences

UCEAP Course Number

115

UCEAP Course Suffix**UCEAP Official Title**

NEURAL INFORMATION PROCESSING

UCEAP Transcript Title

NEURAL INFO PROCESS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course examines the mechanisms that drive neurons and neural circuits throughout the brain and body. The lectures explore how environmental and neuronal signals are translated into and encoded in nerve impulses and how this information is conveyed through synapses to transmit information about the external world to control the body as well as different behaviors and to store information for future use (learning and memory). The mechanisms by which sensory and motor information are integrated through neural circuits in the brain and spinal cord are also explored in detail. Practical classes provide an accessible and engaging experience to delve into the inner workings of neurons and sensory systems.

Language(s) of Instruction

English

Host Institution Course Number

NEUR3006

Host Institution Course Title

NEURAL INFORMATION PROCESSING

Host Institution Campus

Camperdown/Darlington

Host Institution Faculty

Host Institution Degree

Host Institution Department

Medical Sciences

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