

# COURSE DETAIL

## PRINCIPLES OF NEURONAL FUNCTION

**Country**

United Kingdom - England

**Host Institution**

University of Sussex

**Program(s)**

University of Sussex

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

136

**UCEAP Course Suffix****UCEAP Official Title**

PRINCIPLES OF NEURONAL FUNCTION

**UCEAP Transcript Title**

NEURONAL FUNCTION

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course provides students with detailed insight into the fundamental workings of the nervous system. Students focus on the relationship between the structure and function of the cellular and sub-cellular components of neurons, and on mechanisms that underlie information signaling. Examples of nervous system disorders illustrate the sensitivity of neurons and circuits, as well as the often-catastrophic consequences on brain function. Students learn to identify and communicate key principles that are essential to understanding neuroscience. Topics include: signaling by neurons and synapses, neurotransmission and information coding, nervous system plasticity, cellular and molecular basis of learning and memory, fundamental disease mechanisms, and methodological approaches.

### Language(s) of Instruction

English

### Host Institution Course Number

C1016

### Host Institution Course Title

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### Host Institution Course Details

<https://www.sussex.ac.uk/study/study-abroad-at-sussex/our-programs/semester-and...>

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Life Sciences

### Course Last Reviewed

2025-2026

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