

## COURSE DETAIL

### A MULTIDISCIPLINARY APPROACH TO PAIN

**Country**

Taiwan

**Host Institution**

National Taiwan University

**Program(s)**

National Taiwan University

**UCEAP Course Level**

Graduate

**UCEAP Subject Area(s)**

Psychology

**UCEAP Course Number**

217

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

A MULTIDISCIPLINARY APPROACH TO PAIN

**UCEAP Transcript Title**

APPROACHES TO PAIN

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

It is commonly known that the experiences of pain help both humans and animals to avoid potentially harmful situations. In recent two decades, progress in research techniques substantially helps researchers to investigate the neural mechanisms of pain. The perception and expression of pain engages the whole neural axis from the peripheral to central nervous system, and an interdisciplinary approach is needed to elucidate the whole picture of pain. How animals and humans process pain and what the influence of emotions and cognitions on pain remain largely unknown. As for the aspect of investigation, how researchers approach pain in animals and humans is a critical issue. What is even more challenging is the neural basis for chronic pain, which results from the aberrant interactions among the bottom-up pain transmission, descending pain inhibition and top-down emotional and cognitive modulations. In this course, we will discuss the neural mechanisms responsible for both physiological and pathological pain and discuss future research ideas, which would provide a promising direction for conquering pain in the future.

### Language(s) of Instruction

### Host Institution Course Number

GIBMS7117

### Host Institution Course Title

A MULTIDISCIPLINARY APPROACH TO PAIN

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Graduate Institute of Brain and Mind Sciences

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