

# COURSE DETAIL

## CELLULAR SIGNALING

**Country**

Spain

**Host Institution**

Complutense University of Madrid

**Program(s)**

Complutense University of Madrid

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

125

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

CELLULAR SIGNALING

**UCEAP Transcript Title**

CELLULAR SIGNALING

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course offers a study of the general biochemical processes of signaling, the biological molecules involved, and the pathways that control essential functions -growth, differentiation, and cell death. Topics include: the mechanisms of metabolic regulation in response to extracellular signals; biochemical messengers; regulatory proteins that bind guanine nucleotides; cyclic nucleotides; protein phosphorylation and dephosphorylation; receptors-- intracellular, ionotropic, G Protein-Coupled (GPCRs), tyrosine kinase activity, enzyme-coupled, and serine/threonine kinase; regulated proteolysis-mediated signaling.

## Language(s) of Instruction

Spanish

## Host Institution Course Number

803459

## Host Institution Course Title

CELLULAR SIGNALING

## Host Institution Campus

MONCLOA

## Host Institution Faculty

Facultad de Ciencias Químicas.

## Host Institution Degree

GRADO EN BIOQUÍMICA

## Host Institution Department

Departamento de Biología Celular

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