

## COURSE DETAIL

### CELL BIOLOGY & GENETICS

**Country**

Ireland

**Host Institution**

University College Dublin

**Program(s)**

University College Dublin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

110

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

CELL BIOLOGY & GENETICS

**UCEAP Transcript Title**

BIOLOGY & GENETICS

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course provides an introduction to the cell, its structure and functioning. Also the basis of genetics and inheritance are explored. Topics include (1) an overview of cell biology; (2) cellular organelles and the cytoskeleton; (3) how cells work- cellular respiration and photosynthesis; (4) the cell cycle and the key roles of cell division; (5) how meiosis and sexual life cycles provide biological variation; (6) an introduction into genes and inheritance from a Mendelian perspective; (6) the link between chromosomes, genes, and inheritance; (7) DNA and the molecular basis of inheritance; (8) how proteins are made from genes; (9) how genomes can inform our understanding of life's diversity; and (10) a brief introduction into basic genetic molecular techniques.

## Language(s) of Instruction

English

## Host Institution Course Number

BIOL10110

## Host Institution Course Title

CELL BIOLOGY & GENETICS

## Host Institution Course Details

[https://hub.ucd.ie/usis/!W\\_HU\\_MENU.P\\_PUBLISH?p\\_tag=MODULE&MODULE=BIOL10110](https://hub.ucd.ie/usis/!W_HU_MENU.P_PUBLISH?p_tag=MODULE&MODULE=BIOL10110)

## Host Institution Campus

University College Dublin

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Science

## Course Last Reviewed

2023-2024

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