

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 Campus

University College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department

Science

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