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

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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