

COURSE DETAIL

CHEMISTRY IN CELLS

Country

United Kingdom - England

Host Institution

King's College London

Program(s)

King's College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Chemistry Biochemistry

UCEAP Course Number

102

UCEAP Course Suffix**UCEAP Official Title**

CHEMISTRY IN CELLS

UCEAP Transcript Title

CHEMISTRY IN CELLS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course consolidates year 1 organic and physical chemistry by reference to biological examples and shows students its relevance to cellular biochemical processes. It introduces mechanisms and thermodynamics of chemical processes in the cell, including central metabolic pathways, principles of enzyme and metalloenzyme active site catalysis, coenzyme chemistry, and thermodynamics of biochemical processes. It conveys the multidisciplinary and role of chemical ideas in understanding biochemistry, and enable students to apply basic chemical principles in unfamiliar biochemical contexts to generate hypotheses. It also introduces key concepts of cell biology and protein structure.

Language(s) of Instruction

English

Host Institution Course Number

5CCC0060

Host Institution Course Title

CHEMISTRY IN CELLS

Host Institution Course Details

<https://www.kcl.ac.uk/abroad/module-options/chemistry-in-cells-1>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Chemistry

Course Last Reviewed

2021-2022

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