

COURSE DETAIL

BIOENERGETICS AND METABOLISM

Country

United Kingdom - England

Host Institution

University of London, Royal Holloway

Program(s)

University of London, Royal Holloway

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

147

UCEAP Course Suffix

N

UCEAP Official Title

BIOENERGETICS AND METABOLISM

UCEAP Transcript Title

BIOENERGETICS&METAB

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

In this course students develop an understanding of the major pathways for electron transfer and energy conversion in living systems. Students look at how energy is utilized in biosynthesis, and the role of enzymes, coenzymes and metabolic intermediates. Students examine the principles of flux control and metabolic regulation and the mechanisms that balance the activity of key pathways to physiological demands. Students also consider the main features of human energy metabolism and their relationship to obesity and diabetes, and analyze the importance of protein glycosylation and how protein glycans are biosynthesized.

Language(s) of Instruction

English

Host Institution Course Number

BS2510V

Host Institution Course Title

BIOENERGETICS AND METABOLISM

Host Institution Course Details

<https://www.royalholloway.ac.uk/studying-here/undergraduate/biological-sciences...>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biological Science

Course Last Reviewed

2025-2026

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