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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