

COURSE DETAIL

PROTEIN STRUCTURE AND FUNCTION

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

154

UCEAP Course Suffix**UCEAP Official Title**

PROTEIN STRUCTURE AND FUNCTION

UCEAP Transcript Title

PROTEIN STRUC&FUNCT

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The course covers the principles of protein structure, including secondary structure, motifs and domains, and protein folding in vivo. Methods for separation, purification, detection, structural and functional analysis of proteins are considered. The course also covers protein-protein interactions, and the principles of protein engineering and design, as well as the mechanisms of enzyme catalysis and regulation. Students gain experience using fundamental techniques in protein separation and analysis such as SDS-PAGE and Western blotting. Further coursework involves the structure and function prediction of an unknown protein sequence using bioinformatics tools.

Language(s) of Instruction

English

Host Institution Course Number

BS2520V

Host Institution Course Title

PROTEIN STRUCTURE AND FUNCTION

Host Institution Campus

Royal Holloway, University of London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biological Sciences

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