

COURSE DETAIL

PROTEIN STRUCTURE AND DYNAMICS

Country

Taiwan

Host Institution

National Taiwan University

Program(s)

National Taiwan University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Chemistry Biochemistry

UCEAP Course Number

105

UCEAP Course Suffix**UCEAP Official Title**

PROTEIN STRUCTURE AND DYNAMICS

UCEAP Transcript Title

PROTEIN STR DYNAMICS

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course introduces the principles of 3D structures of proteins, which underlie all protein function, as well as the techniques used to obtain and analyze protein structures. The course strongly emphasizes protein dynamics as well; i.e. how protein structural flexibility permits enzymatic/receptor/structural activity. Finally, the course provides hands-on experience for all students, with in-silico analysis of protein structure, motion, and activity.

The course provides an overview of the field of protein biophysics and structure, with a strong emphasis on practical analysis and structural evaluation.

Language(s) of Instruction

English

Host Institution Course Number

Chem5127

Host Institution Course Title

PROTEIN STRUCTURE AND DYNAMICS

Host Institution Course Details

<https://course.ntu.edu.tw/en/courses/114-1/33417>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Department of Chemistry

Course Last Reviewed

2025-2026

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