

COURSE DETAIL

BIOPHYSICS

Country

Germany

Host Institution

Free University of Berlin

Program(s)

Free University Berlin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

112

UCEAP Course Suffix**UCEAP Official Title**

BIOPHYSICS

UCEAP Transcript Title

BIOPHYSICS

UCEAP Quarter Units

8.50

UCEAP Semester Units

5.70

Course Description

This lecture conveys the biophysical bases for the description and understanding of the structure, dynamics, and functions of biological molecules. Topics include an introduction to biological macromolecules; structure of complex biomolecules; self-organization of proteins and membranes through hydrophobic forces; ions, protonation, and protein electrostatics; introduction to calculations of molecular mechanics; protein folding and predicting structure; and motor enzymes and nanometer-scale movement.

Language(s) of Instruction

German

Host Institution Course Number

20101001,20101002

Host Institution Course Title

BIOPHYSIK FÜR BACHELOR

Host Institution Course Details

<https://www.fu-berlin.de/vv/en/lv/1015217?m=1502440&pc=909347&sm=934771&id=1015...>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Physik

Course Last Reviewed

2025-2026

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