

COURSE DETAIL

MATERIAL PHYSICS

Country

China

Host Institution

Peking University, Beijing

Program(s)

Peking University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

139

UCEAP Course Suffix**UCEAP Official Title**

MATERIAL PHYSICS

UCEAP Transcript Title

MATERIAL PHYSICS

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

This course investigates material properties from the perspective of condensed matter physics. We will cover the mechanical, thermal, electrical, magnetic and optical properties of materials, learn to apply qualitative and quantitative analysis and understand these properties based on the interaction between atoms and molecules, crystalline structure, electronic and magnetic structures and morphology. Through the course of study, we will know the most dominant factors affecting material properties and know how to estimate material properties in a certain range.

Language(s) of Instruction

Chinese

Host Institution Course Number

01032390

Host Institution Course Title

MATERIAL PHYSICS

Host Institution Course Details

<https://dean.pku.edu.cn/service/web/courseDetailEn.php?flag=1&zxjhbh=BZ25261010...>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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