

## 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&zxxjhbh=BZ25261010...>

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

## Course Last Reviewed

2025-2026

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