

COURSE DETAIL

MATERIAL SCIENCE

Country

Japan

Host Institution

Tohoku University

Program(s)

Engineering and Science

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

111

UCEAP Course Suffix**UCEAP Official Title**

MATERIAL SCIENCE

UCEAP Transcript Title

MATERIAL SCIENCE

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

This class object is to study fundamental concepts of solid-state physics, such as crystal structure, reciprocal lattice, x-ray, diffraction, phonon, band dispersion, Fermi surface, magnetism, semiconductor, and superconductivity. Other topics include: categories of solids; diffraction; phonons; free electrons; periodic potential; Fermi surface; semiconductors; and superconductivity.

Language(s) of Instruction

English

Host Institution Course Number

PHY821E

Host Institution Course Title

MATERIAL SCIENCE

Host Institution Campus

Tohoku University

Host Institution Faculty**Host Institution Degree****Host Institution Department**

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