

COURSE DETAIL

GEOPHYSICS

Country

Japan

Host Institution

Tohoku University

Program(s)

Engineering and Science

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics Earth & Space Sciences

UCEAP Course Number

130

UCEAP Course Suffix**UCEAP Official Title**

GEOPHYSICS

UCEAP Transcript Title

GEOPHYSICS

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

This course covers the basics in geophysics, particularly the following three specific sub-areas: solid earth physics, fluid earth physics, and space physics.

(1) Solid Earth Physics: Selected topics from seismology, volcanology, and plate tectonics for the purpose of learning basic knowledge on the structure and dynamics of the solid Earth.

(2) Fluid Earth (atmosphere and ocean) Physics: Selected topics from meteorology, global warming, and physical climatology for the purpose of learning basic knowledge on climate change and related global environment problems.

(3) Space Physics: Selected topics from solar physics, interplanetary physics, magnetospheric physics, and upper atmospheric physics for the purpose of learning basic knowledge on the electromagnetic environment of the Sun, the Earth, and planets.

Language(s) of Instruction

English

Host Institution Course Number

N/A

Host Institution Course Title

GEOPHYSICS

Host Institution Campus

Tohoku University

Host Institution Faculty

Host Institution Degree

Host Institution Department

JYPE

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