

## 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 Course Details

<https://www.insc.tohoku.ac.jp/english/wp-content/uploads/2024/04/VJ251S4.pdf>

## Host Institution Campus

Tohoku University

## Host Institution Faculty

<b>Host Institution Degree</b>
<b>Host Institution Department</b> JYPE
<b>Course Last Reviewed</b> 2023-2024

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