

COURSE DETAIL

PHYSICAL OCEANOGRAPHY

Country

Korea, South

Host Institution

Yonsei University

Program(s)

Yonsei University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Earth & Space Sciences

UCEAP Course Number

102

UCEAP Course Suffix**UCEAP Official Title**

PHYSICAL OCEANOGRAPHY

UCEAP Transcript Title

PHYSCL OCEANOGRPHY

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course explores the structure of the ocean and the driving forces for the ocean circulation. It also includes the discussion about the dynamics working in the ocean and characteristics of Seven Seas. Topics include History of physical oceanography, Observation and data analysis, Mean states of the ocean(wind-driven circulation and thermohaline circulation), Dynamics(Advection, Transport, Budgets, Equation of motion, Geostrophy, Friction, Ekman layer, Potential vorticity, Sverdrup balance, western boundary current), Global ocean circulation, Equatorial circulation and ENSO, Pacific / Atlantic / Indian Oceans, Southern Ocean / Arctic, Waves and tides, Ocean mixing, and Ocean modeling.

Language(s) of Instruction

English

Host Institution Course Number

ATM3111

Host Institution Course Title

PHYSICAL OCEANOGRAPHY

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Atmospheric Sciences

Course Last Reviewed

2022-2023

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