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

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 Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Atmospheric Sciences

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