COURSE DETAIL

GEOPHYSICAL FLUID DYNAMICS

Country
United Kingdom - England

Host Institution
University College London

Program(s)
University College London

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Mathematics Earth & Space Sciences

UCEAP Course Number
128

UCEAP Course Suffix

UCEAP Official Title
GEOPHYSICAL FLUID DYNAMICS

UCEAP Transcript Title
GEOPHYS FLUID DYN

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description
This course uses mathematics to discuss the global environment. Basic fluid dynamics and simple physics for the atmosphere and oceans are used to discuss some of the mechanisms involved in the dispersion of pollutants along coasts and the four-yearly (on average) El Nino oscillation in the equatorial Pacific, with its attendant Australia drought and blight of the Peruvian anchovy industry. Typical analysis involves the solution of linear partial differential equations for the velocity and density of the flows.

Language(s) of Instruction
English

Host Institution Course Number
MATH0024

Host Institution Course Title
GEOPHYSICAL FLUID DYNAMICS

Host Institution Course Details
https://www.ucl.ac.uk/prospective-students/study-abroad-ucl/study-abroad-guide/...

Host Institution Campus
University College London

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics

Course Last Reviewed
2019-2020

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