

# 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 Campus**

University College London

**Host Institution Faculty****Host Institution Degree****Host Institution Department**

Mathematics

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