

## COURSE DETAIL

### GLOBAL CLIMATE CHANGE

**Country**

Netherlands

**Host Institution**

Utrecht University

**Program(s)**

Utrecht University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Environmental Studies

**UCEAP Course Number**

126

**UCEAP Course Suffix****UCEAP Official Title**

GLOBAL CLIMATE CHANGE

**UCEAP Transcript Title**

GLOBAL CLIMATE CHNG

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## **Course Description**

Global climate change is an extremely complicated system to study, and one of the major challenges facing the intellectual and scientific community. Therefore it requires in depth knowledge from many disciplines and their interaction. This course focuses on the “hard science” of climate change, dealing with the physical and biological sciences rather than the social science components related to global climate change. Examples of such components include the radiation balance of the atmosphere, atmospheric chemistry, ocean acidification, sea level rise, and global bio-geochemical cycles. The course also focuses on how anthropogenic action affects the processes of the Earth system, with special focus on those actions that affect the climate directly or indirectly. The subjects discussed can be grouped into the following bullet points: comprehensive introduction to global climate change; relationship between weather, climate, and environmental change; description of the major Earth system components, both natural and anthropogenic, driving environmental change; development of models and assessment of their predictions for current and future change; discuss how global change is affected by and affects human activity.

## **Language(s) of Instruction**

English

## **Host Institution Course Number**

GEO2-2143

## **Host Institution Course Title**

GLOBAL CLIMATE CHANGE

## **Host Institution Campus**

Geosciences

## **Host Institution Faculty**

## **Host Institution Degree**

## **Host Institution Department**

Sustainable Development

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