

# COURSE DETAIL

## GEOCHEMICAL CYCLES

**Country**

Netherlands

**Host Institution**

Utrecht University

**Program(s)**

Utrecht University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Earth & Space Sciences

**UCEAP Course Number**

102

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

GEOCHEMICAL CYCLES

**UCEAP Transcript Title**

GEOCHEMICAL CYCLES

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

Geo-chemical processes are studied along the hydrological cycle, with an emphasis on abio-tic and bio-tic reactions that modify the composition of the atmosphere, pedosphere, and natural waters. Further, attention is given to perturbation of global bio-geochemical cycles by natural processes and human activity, and to climate change issues. Topics covered include: water and energy cycles; chemical transport; atmosphere; greenhouse effect; atmospheric ozone; rainwater composition; atmospheric cycles of S and N; acid rain; chemical weathering; soil and ground waters; rivers; continental denudation; nutrients; lakes; mass balance models; acid lakes; oceans; processes affecting seawater composition; modeling elemental cycles with STELLA; global P and C cycles.

## Language(s) of Instruction

English

## Host Institution Course Number

GEO2-1207

## Host Institution Course Title

GEOCHEMICAL CYCLES

## Host Institution Campus

Geosciences

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Earth Sciences

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