

COURSE DETAIL

NATURAL PROCESSES

Country

Netherlands

Host Institution

Utrecht University

Program(s)

Utrecht University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies

UCEAP Course Number

125

UCEAP Course Suffix**UCEAP Official Title**

NATURAL PROCESSES

UCEAP Transcript Title

NATURAL PROCESSES

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides students with a solid natural science base for studying global change. As such, it provides the fundamental understanding of natural processes that are needed as a basis for follow-up courses dealing in depth with specific global change effects, such as Global Climate Change. The focus is on the earth's energy balance, the hydrological cycle and the elemental cycles of carbon, nitrogen and phosphorus, because they are essential for life on earth and are linked to the major global change effects that our society is dealing with today. The course looks at the major stocks of energy, water, and elements in different environmental compartments (atmosphere, hydrosphere, lithosphere and biosphere), as well as the processes that govern the exchange between those compartments and the storage capacity of the compartments. Subjects that are covered include: the global energy budget; the global cycles of water, carbon, nitrogen and phosphorus; atmosphere; hydrosphere; lithosphere; biosphere.

Language(s) of Instruction

English

Host Institution Course Number

GEO1-2412

Host Institution Course Title

NATURAL PROCESSES

Host Institution Campus

Geosciences

Host Institution Faculty

Host Institution Degree

Host Institution Department

Sustainable Development

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