

COURSE DETAIL

CHEMICAL GEODYNAMICS

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

122

UCEAP Course Suffix**UCEAP Official Title**

CHEMICAL GEODYNAMICS

UCEAP Transcript Title

CHEMICALGEODYNAMICS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course explores how chemical and isotopic tracers can be used to determine the composition, mineral content, and evolution of the crust mantle system. Focus is given to radiogenic isotopes and trace elements in magmatic systems. Key issues include: How are the crust and the mantle chemically distinct? What are the differences between continental and oceanic crustal and mantle reservoirs? How have these reservoirs evolved through geological time? How can geochemical data support or disprove plate tectonic models? Which types of magmatic rock give the most useful information about tectonic processes and how do we recognize this?

Language(s) of Instruction

English

Host Institution Course Number

GEO3-1306

Host Institution Course Title

CHEMICAL GEODYNAMICS

Host Institution Campus

Utrecht University

Host Institution Faculty

Geosciences

Host Institution Degree

Host Institution Department

Earth Sciences

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