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 Course Details
https://osiris-student.uu.nl/#/onderwijscatalogus/extern/cursus

Host Institution Campus
Utrecht University

Host Institution Faculty
Geosciences

Host Institution Degree

Host Institution Department
Earth Sciences

Course Last Reviewed
2023-2024

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