COURSE DETAIL

PETROLOGY AND GEOCHEMISTRY OF IGNEOUS SYSTEMS
Country New Zealand
Host Institution University of Auckland
Program(s) University of Auckland
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Earth & Space Sciences
UCEAP Course Number 104
UCEAP Course Suffix
UCEAP Official Title PETROLOGY AND GEOCHEMISTRY OF IGNEOUS SYSTEMS
UCEAP Transcript Title PETROLOGY & GEOCHEM
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course covers the principles and applications of geochemistry and petrology to igneous systems. Basic principles of geochemistry and geochronology precede discussions of planetary accretion, the mantle, magma genesis and evolution, magmatic ore systems, and volcanic systems/volcanology. This course uses a process-based approach, examining magmatic systems in the context of the global (or planetary) environment in which they form, with particular emphasis given to subduction zone, mid-ocean ridge and ocean-island magmatism. This course then focuses on the evolution and modification of primary magmas as they transit the crust, including magmatic ore deposits, and the effect of magmas on volcanic processes and products.

Language(s) of Instruction
English

Host Institution Course Number
EARTHSCI 304

Host Institution Course Title
PETROLOGY AND GEOCHEMISTRY OF IGNEOUS SYSTEMS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Earth Sciences

Course Last Reviewed

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