

COURSE DETAIL

VOLCANOES, HOT ROCKS AND MINERALS

Country

Australia

Host Institution

University of Sydney

Program(s)

University of Sydney

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies

UCEAP Course Number

116

UCEAP Course Suffix**UCEAP Official Title**

VOLCANOES, HOT ROCKS AND MINERALS

UCEAP Transcript Title

VOLCANOES&MINERALS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course relates plate tectonics to a) volcanoes and magma systems that create them; b) the formation of precious metal and gemstone ores; and c) an understanding of how Earth's materials (minerals, rocks, rock formations, lithospheric plates etc.) respond to stresses and the forces that deform them. Methods of analysis involve studies at the microscopic scale (performed on thin sections) and the mesoscopic scale performed on hand specimens and outcrops. The course includes a day field trip to study an extinct volcano. Practical work includes independent study of igneous systems, rocks and minerals employing both microscope-based techniques and computer modelling.

Language(s) of Instruction

English

Host Institution Course Number

GEOS2114

Host Institution Course Title

VOLCANOES, HOT ROCKS, AND MINERALS

Host Institution Campus

sydney

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Geoscience

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