

COURSE DETAIL

CURRENT CRUSTAL MOVEMENTS

Country

Iceland

Host Institution

University of Iceland

Program(s)

University of Iceland

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Earth & Space Sciences

UCEAP Course Number

116

UCEAP Course Suffix**UCEAP Official Title**

CURRENT CRUSTAL MOVEMENTS

UCEAP Transcript Title

CRUSTAL MOVEMENTS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

The subject of the course is active tectonic movements with emphasis on processes currently active in Iceland. Theory of plate tectonics, plate velocity models, both relative and absolute. Elastic and ductile behaviour of rocks in the crust and mantle. Brittle fracturing. Plate boundary deformation. Rifts and rifting structures. Transcurrent faulting and associated structures. Earthquakes and faulting. Measuring crustal movements, GPS-geodesy, levelling, SAR-interferometry, tilt- and strainmeters. A one-day field project is carried out in an active area. Additionally, one day field trip to the plate boundary areas of SW-Iceland. This course is only for exchange students.

Language(s) of Instruction

English

Host Institution Course Number

JED505G

Host Institution Course Title

CURRENT CRUSTAL MOVEMENTS

Host Institution Campus

Host Institution Faculty

Faculty of Earth Sciences/Engineering and Natural Sciences

Host Institution Degree

Host Institution Department

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