

COURSE DETAIL

STRUCTURAL GEOLOGY AND TECTONICS

Country

United Kingdom - Scotland

Host Institution

University of St Andrews

Program(s)

University of St Andrews

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies

UCEAP Course Number

139

UCEAP Course Suffix**UCEAP Official Title**

STRUCTURAL GEOLOGY AND TECTONICS

UCEAP Transcript Title

STRUCTURAL GEOLOGY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course covers the principles of rock deformation and the tectonic processes that drive this deformation. The goals of this course are the development of skills in the structural analysis of rock bodies to gain an understanding of the geometries, sequencing, and kinematics of deformational features; and understanding of tectonic principles and controls on rock deformation and mountain building. Students learn how to quantitatively evaluate strain distribution, stress fields, and the failure envelope; how to evaluate structures arising from polyphase deformation; and how to use these skills for geotechnical engineering applications. The course may include compulsory field trips.

Language(s) of Instruction

English

Host Institution Course Number

ES3007

Host Institution Course Title

STRUCTURAL GEOLOGY AND TECTONICS

Host Institution Course Details

https://www.st-andrews.ac.uk/subjects/modules/catalogue/?meta_semester_sand=2&m...

Host Institution Campus

Host Institution Faculty

School of Psychology and Neuroscience

Host Institution Degree

Host Institution Department

Course Last Reviewed

2024-2025

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