

# 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 Campus

### Host Institution Faculty

School of Psychology and Neuroscience

### Host Institution Degree

### Host Institution Department

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