

COURSE DETAIL

EARTH'S RESOURCE CHALLENGES

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 Earth & Space Sciences

UCEAP Course Number

112

UCEAP Course Suffix**UCEAP Official Title**

EARTH'S RESOURCE CHALLENGES

UCEAP Transcript Title

EARTH/S RESOURCES

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

Access to clean water, fertile soil, critical metals, and cheap energy is crucial for modern society. However, the unsustainable use of these natural resources is changing the face of our planet at an unprecedented rate. This course builds on the understanding of planet Earth gained in ES1001, and it highlights the work done by earth scientists to solve 21st century resource and environmental challenges. The course investigates the geological processes that generate Earth's "traditional" resources, such as metals and hydrocarbons, and their environmental impact. Equally, students study "new" alternative energies such as geothermal and hydro power, and discuss resource requirements of a "Green New Deal" and potential environmental solutions, such as carbon capture and pollution remediation strategies. There is a fully-funded six-day residential field excursion to the Highlands of Scotland.

Language(s) of Instruction

English

Host Institution Course Number

ES1002

Host Institution Course Title

EARTH'S RESOURCE CHALLENGES

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Earth and Environmental Science

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