

COURSE DETAIL

GEOMATERIALS AND GEOENERGY

Country

Ireland

Host Institution

University College Dublin

Program(s)

University College Dublin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Earth & Space Sciences

UCEAP Course Number

130

UCEAP Course Suffix**UCEAP Official Title**

GEOMATERIALS AND GEOENERGY

UCEAP Transcript Title

GEOMATERIALS&ENERGY

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course outlines the processes leading to the formation and behavior of economic geomaterials and energy resources. Geomaterials covered include groundwater and the sources of metallic and non-metallic resources. Geoenergy resources covered include coal, conventional and unconventional hydrocarbons, wind, hydroelectric, ocean, solar, geothermal and nuclear energy. The use of and demand for geomaterials and geoenergy are explored, and strategies for transitioning to a clean energy future, including carbon capture and storage technologies, are discussed.

Language(s) of Instruction

English

Host Institution Course Number

GEOL30380

Host Institution Course Title

GEOMATERIALS AND GEOENERGY

Host Institution Campus

University College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department

Science

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