

## 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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