

# COURSE DETAIL

## EARTH MODELLING AND PREDICTION

**Country**

United Kingdom - Scotland

**Host Institution**

University of Edinburgh

**Program(s)**

Scottish Universities, University of Edinburgh

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Earth & Space Sciences

**UCEAP Course Number**

106

**UCEAP Course Suffix****UCEAP Official Title**

EARTH MODELLING AND PREDICTION

**UCEAP Transcript Title**

EARTH MODEL&PREDICT

**UCEAP Quarter Units**

8.00

**UCEAP Semester Units**

5.30

## Course Description

This course explores topical issues in geosciences to understand and develop the essential mathematical skills required by modern geoscientists. The emphasis is on data analysis and interpretation, including an appreciation of the importance of observation errors and the use of quantitative data in the prediction of future changes in the Earth system. The course content is taught through accessible applied problems (e.g., growth rate of ice sheets and balancing the carbon cycle), which are carefully designed to introduce key scientific notation and concepts that are used repeatedly through this course and more widely through the GeoSciences degree programs. Weekly tutorials (in groups of 5-6) reinforce the key concepts taught in the course.

## Language(s) of Instruction

English

## Host Institution Course Number

GESCO8002

## Host Institution Course Title

EARTH MODELLING AND PREDICTION

## Host Institution Campus

Edinburgh

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Earth Science

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