

COURSE DETAIL

SPACESHIP EARTH: INTRODUCTION TO EARTH SYSTEM SCIENCE

Country

Ireland

Host Institution

Trinity College Dublin

Program(s)

Trinity College Dublin

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Geography Earth & Space Sciences

UCEAP Course Number

55

UCEAP Course Suffix**UCEAP Official Title**

SPACESHIP EARTH: INTRODUCTION TO EARTH SYSTEM SCIENCE

UCEAP Transcript Title

EARTH SCIENCE SYST

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

The course introduces fundamental concepts of Earth systems science with reference to its major subsystems: geosphere, biosphere, atmosphere, hydrosphere, and anthroposphere. It illustrates how material and energy are cycled through the Earth system; describe the links between biotic and abiotic systems and their role in maintaining a habitable planet; applies an Earth systems approach to describe the phenomena of environmental and climate change; discriminates between 'weather' and 'climate' and situates concerns about current climate change in a longer-term (geological) context; identifies how human activities modify Earth system function; and applies core concepts in geography and geoscience to real-world examples.

Language(s) of Instruction

English

Host Institution Course Number

GSU11004

Host Institution Course Title

SPACESHIP EARTH: INTRODUCTION TO EARTH SYSTEM SCIENCE

Host Institution Campus

Trinity College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department

Geology

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