

COURSE DETAIL

PAST CLIMATES: ICEHOUSE TO GREENHOUSE

Country

Host Institution

Program(s)

University of Melbourne

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies Earth & Space Sciences

UCEAP Course Number

114

UCEAP Course Suffix

UCEAP Official Title

PAST CLIMATES: ICEHOUSE TO GREENHOUSE

UCEAP Transcript Title

PAST CLIMATES

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course explores the Earth's past and present climates, from billion year to hundred year time scales. The course also deals with the wide range of causes of past climates and of climate change. Climate episodes discussed may include: Precambrian Snowball Earth, Gondwanan Glaciations, the Mesozoic Hothouse, global cooling over the last 20 million years and increasing aridity in Australia over the last 5 million years. Other topics include the record of regular Ice Age cycles, abrupt climate change, global and regional climate variability of the past 1000 years, and natural and human factors contributing to modern climate change. Climate 'proxy' records such as ice cores, tree rings, corals, sedimentary records and historical documents are used to identify more recent changes in the Australian region.

Language(s) of Instruction

English

Host Institution Course Number

ERTH20003

Host Institution Course Title

PAST CLIMATES: ICEHOUSE TO GREENHOUSE

Host Institution Campus

Melbourne

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Earth Science

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