

# 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 Climate 'proxy' records such as ice cores, tree rings, corals, sedimentary records and historical documents are used to identify more recent changes in the Australian region.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 Course Details****Host Institution Campus**

Melbourne

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

Earth Science

**Course Last Reviewed**

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