

Climate Change in Asia Pacific Science and Solutions

88A068

The United Nations predicts that global temperatures will set new records in the next five years.

There is a high probability that the global temperature will be more than 1.5°C above pre-industrial levels sometime before 2027.

Crossing this 1.5°C threshold could result in faster ocean heating and acidification, sea ice and glacial melt, sea level rise and more extreme weather events.

Climate change is one of the biggest challenges facing our world. It is important that we understand the science behind this existential threat so that we implement effective solutions.

Topics covered in this course include:

- Climate science and expected impacts
- Sea level rise
- Climate impacts on coral reefs
- Australian bushfires and global wildfires
- Food security
- Carbon neutral goals for the US (Hawaii), Japan and China

- Understanding urban decarbonization
- Climate change policy in the US, China and Japan
- Renewable energy in small island communities (Samoa, Hawaii)
- Energy security.

Students taking this course will engage in class and online with scientists, researchers and policy-makers working on climate change mitigation and adaptation in the Asia Pacific region.

We will connect classrooms real-time between the participating universities and students will have the opportunity to interact online with their peers from across the region.

The language of instruction is English and students are required to make presentations as well as participate in online breakout sessions and group discussions.

The course runs in the Fall/Winter Semester from **5 October 2023 to 25 January 2024 (depending on the university)**.

Classes run from 13.00-14.30 Japan Standard Time (check local timezone for your university).

Course



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