

COURSE DETAIL

CLIMATE CHANGE AND EXTREME WEATHER

Country

China

Host Institution

Fudan University

Program(s)

Fudan University

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Environmental Studies

UCEAP Course Number

17

UCEAP Course Suffix**UCEAP Official Title**

CLIMATE CHANGE AND EXTREME WEATHER

UCEAP Transcript Title

CLIMATE CHNG&WEATH

UCEAP Quarter Units

3.00

UCEAP Semester Units

2.00

Course Description

In "Climate Change and Extreme Weather," students embark on an investigative journey to demystify the science behind climate change and the increasing occurrence of extreme weather events around the world. Aimed at students from a variety of academic backgrounds, this introductory undergraduate course integrates fundamental atmospheric science principles with an examination of the dynamic systems that govern Earth's climate. Through a blend of lectures, field study, and hands-on data analysis projects, students will delve into the mechanisms of climate change, the physical processes driving extreme weather events (such as typhoons/hurricanes, droughts, floods, heatwaves, wildfires, etc.), and the methodologies scientists use to model and predict these phenomena. Emphasizing critical thinking and problem-solving, students will also investigate the role of human activity in climate change and the strategies for mitigation and adaptation. By the end of the course, students will be empowered with the knowledge and skills to navigate the complex issues surrounding climate change and extreme weather, promoting a proactive and informed approach to one of the most pressing challenges of our time.

Language(s) of Instruction

English

Host Institution Course Number

GEEC10017

Host Institution Course Title

CLIMATE CHANGE AND EXTREME WEATHER

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

[Print](#)