COURSE DETAIL

CLIMATE SYSTEM DYNAMICS
Country Hong Kong
Host Institution Chinese University of Hong Kong
Program(s) Chinese University of Hong Kong
UCEAP Course Level Lower Division
UCEAP Subject Area(s) Physics Earth & Space Sciences
UCEAP Course Number 20
UCEAP Course Suffix
UCEAP Official Title CLIMATE SYSTEM DYNAMICS
UCEAP Transcript Title CLIMATE SYSTEMS
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description
This course presents an integrated introduction to the climate system, stressing the dynamics of the atmosphere and its physical and chemical interactions with the hydrosphere, biosphere and geosphere. The course applies basic scientific and mathematical principles to explain the history, current state and future projection of weather and climate, natural hazards (e.g., typhoons, floods), and global climate change in the context of natural variability and anthropogenic influence. Topics include Earth's energy balance, climate feedback, convection and clouds, general circulation of the atmosphere and ocean, biogeochemistry and global carbon cycle, roles of vegetation and ecosystems, and historical and future climate change.

Language(s) of Instruction
English

Host Institution Course Number
ESSC2020

Host Institution Course Title
CLIMATE SYSTEM DYNAMICS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Earth Space and Science

Course Last Reviewed

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