COURSE DETAIL

OCEANS AND CLIMATE
Country Barbados
Host Institution University of the West Indies
Program(s) University of the West Indies
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Environmental Studies
UCEAP Course Number 105
UCEAP Course Suffix
UCEAP Official Title OCEANS AND CLIMATE
UCEAP Transcript Title OCEANS & CLIMATE
UCEAP Quarter Units 8.00
UCEAP Semester Units 5.30

Course Description
This course examines the following topics: the climate system; radiation; the atmosphere; greenhouse effect; climate variability; the oceans; chemical composition of the oceans; ocean circulation; cryosphere, biosphere, geosphere, timescales, and feedbacks; physical interactions between the ocean and atmosphere; long-wave radiation; heat and moisture exchange; oceanic heat balance; Coriolis force; geostrophy; tidal forces and their influence; wave formation and characteristics; wind-driven circulations; the ocean gyres; coastal upwelling; monsoonal circulation; oceanic eddies; the thermohaline circulation; oceanic impacts; tropical cyclones; and finally, mesocyclones are studied.

Language(s) of Instruction
English

Host Institution Course Number
ERSC 1002

Host Institution Course Title
OCEANS AND CLIMATE

Host Institution Course Details

Host Institution Campus
UWI-Cave Hill

Host Institution Faculty

Host Institution Degree

Host Institution Department
Biological and Chemical Sciences

Course Last Reviewed
2024-2025

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