COURSE DETAIL

CLIMATE CHANGE AND ITS IMPACTS ON THE ENVIRONMENT
Country Sweden
Host Institution Lund University
Program(s) Lund University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Geography Environmental Studies Earth & Space Sciences
UCEAP Course Number 168
UCEAP Course Suffix
UCEAP Official Title CLIMATE CHANGE AND ITS IMPACTS ON THE ENVIRONMENT
UCEAP Transcript Title CLIMATE CHANGE
UCEAP Quarter Units 12.00
UCEAP Semester Units 8.00

Course Description
This course covers the climate system and climate models. Modelling scenarios are used to study global and regional climate change and their potential effects on: hydrology, ecosystems and ecosystem processes, biodiversity, biogeography, extreme events, the cryosphere, atmospheric chemistry, the oceans. Methods of detecting climate change are also covered. The two focus points for the course are: 1) understanding the causal links that can explain variations and changes in climate, both in the past and in the future, with particular attention to greenhouse gases, the carbon cycle and climate feedbacks, and 2) understanding the impact of these variations and changes in climate on other components of the Earth system, at local, regional and global scales. Observational data, climate models, ecosystem models and modelling scenarios are used to practice the critical analysis of e.g. data representativity, modelling assumptions and validation against independent information.

Language(s) of Instruction
English

Host Institution Course Number
NGEN01

Host Institution Course Title
PHYSICAL GEOGRAPHY: CLIMATE CHANGE AND ITS IMPACTS ON THE ENVIRONMENT

Host Institution Course Details

Host Institution Campus
Science

Host Institution Faculty

Host Institution Degree

Host Institution Department
Physical Geography and Ecosystem Science

Course Last Reviewed

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