COURSE DETAIL

THE CLIMATE SYSTEM
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 157
UCEAP Course Suffix
UCEAP Official Title THE CLIMATE SYSTEM
UCEAP Transcript Title THE CLIMATE SYSTEM
UCEAP Quarter Units 12.00
UCEAP Semester Units 8.00

Course Description
This course provides students with the basics about the global climate system. It covers climate variations and climatological processes and how those affects the global and local climate. During the course students consider the global and regional climatology and what causes the largescale differences in the energy budget. Topics covered include: are the different components of the global climate system; the physical characteristics and the chemical composition of the atmosphere; the global and regional energy flows in the atmosphere. Students also learn about the general atmospheric circulation and the coupling between oceans and atmosphere with its role in the energy exchange. After this course students have an improved understanding of: the components affecting the energy balance of the atmosphere on different spatial- and time scales the relationship between the composition of weather-systems and their variations; natural and antropogenetic causes to variation in weather; basic climatological analysis methods; how to adapt and evaluate climate analysis to environmental and social applications.

Language(s) of Instruction
English

Host Institution Course Number
NGEA21

Host Institution Course Title
THE CLIMATE SYSTEM

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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