COURSE DETAIL

INTRODUCTION TO ENVIRONMENTAL SYSTEMS ANALYSIS
Country Netherlands
Host Institution Wageningen University and Research Center
Program(s) Wageningen University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Environmental Studies
UCEAP Course Number 124
UCEAP Course Suffix
UCEAP Official Title INTRODUCTION TO ENVIRONMENTAL SYSTEMS ANALYSIS
UCEAP Transcript Title ENVIR SYSTEM ANALYS
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description

This course is an introduction to environmental systems analysis. The course focuses on its analytical tools to assess climate change impacts and adaptation and apply these tools to a climate change impact problem. This course teaches through an environmental systems approach for analyzing complex environmental problems such as climate change. This approach provides a general framework to consider multiple aspects in exploring alternative solutions for complex environmental problems. Different analytical tools exist that can be used in environmental systems analysis, but the focus is on the tool conceptual model, regression model, and scenario analysis that together can be used to assess climate change impacts and adaptation. The systems approach, climate change impact, and adaptation assessment are taught in lectures, practiced in a practical, and applied in an assignment. In the assignment, students study a selected climate change impact problem linked to the study fields of the environmental systems analysis groups, for example, health, tourism, ecosystem services, biofuels, and nutrients. Datasets are provided and students set up a conceptual model, develop a statistical regression model, apply a scenario analysis, study adaptation options, and communicate results.

Language(s) of Instruction
English

Host Institution Course Number
ESA20506

Host Institution Course Title
INTRODUCTION TO ENVIRONMENTAL SYSTEMS ANALYSIS

Host Institution Campus
Wageningen University

Host Institution Faculty

Host Institution Degree

Host Institution Department
Environmental Studies

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