

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 Course Details

<https://wur.osiris-student.nl/#/onderwijscatalogus/extern/cursus>

Host Institution Campus

Wageningen University

Host Institution Faculty

Host Institution Degree

Host Institution Department

Environmental Studies

Course Last Reviewed

2022-2023

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