Visualizing Climate Change

Single subject and programme course

7.5 credits

Visualizing Climate Change

746A58

Valid from:

Determined by
The Quality Board at the Faculty of Arts and Sciences

Date determined
2010-06-17

Offered for the last time
Autumn semester 2020

Replaced by
746A88

Main field of study
Environmental Science

Course level
Second cycle

Advancement level
A1X

Course offered for
- Master´s Programme in Science for Sustainable Development

Entry requirements
Applicants must, by the closing date for application, hold a bachelor´s degree/kandidatexamen (equivalent for example a professional degree) of at least 180 ECTS credits, including a 15 ECTS credit degree paper of equivalent. Relevant background is studies within natural science, social science, health science, humanities or engineering that relate to the environmental, social or ecenomic aspects of sustainable development. Documented knowledge of English equivalent to Engelska B/Engelska 6.

Intended learning outcomes
After completion of the course the student should be able to:
- identify, describe and apply fundamental concepts of visualization
- critically analyse and discuss visualization tools and techniques for climate communication and decision making
- apply skills in analysing climate data and present results orally and in writing.
- develop visual presentations including data management, data transformation, graphical representations, interaction and narratives.

Course content

The aim of the course is to gain a professional understanding for visualization of climate change as a tool for analysis, science communication and decision making support. The course will cover the basics of geospatial and information visualization as well as the handling of databases/datasets, data collection and creation of presentations for a broad audience from experts and policy makers, industry, planners to the general public.

This course will cover visualization as a tool for
- Analysis of linkages within climate change, social and environmental systems
- Visual communication of climate change related issues
- Visualization for planning and decision making support in terms of interactive decision theatres through role-plays, narratives and interactive seminars.

Teaching and working methods

Lectures, seminars, laboratories, dome presentations, individually written assignments and oral presentations. Language of instruction: English

Examination

The course is examined through written tasks, oral presentations and active participation in seminars and exercises.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

Grades

ECTS, EC

Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus. The course is carried out in such a way that both men´s and women´s experience and knowledge is made visible and developed.

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Department

Institutionen för Tema