Kursnamn på svenska Klimat ledarskap: Makt, politik och strukturer
Swedish course title

Kursnamn på engelska Climate Change leadership I: Power, politics and structures
Englisk course title

Omfattning (högskolepoäng) 5
Higher education credits

Undervisningsspråk Engelska
Language of instruction

Rekommenderade förkunskaper
Recommended prerequisites

Master degree and accepted to PhD programme in TekNat or other science domains (conditionally open also to master students)

Kursens syfte och mål
General course objective/s and learning outcomes

Mitigating causes and effects of climate change is a profound societal challenge that calls for entirely new ways of doing and thinking science. The rapid social transitions and systemic transformations required to meet the goals of the Paris agreement also calls for new conceptual thinking around leadership, organisation, systems and politics. Climate Change leadership is an emerging research field spanning from systems theory and related socio-technical, regime theory to governance and political theory. However, at present much of the academic discourses are carried out as separate fields with little reference points between them. The PhD course is intended as a means to bridge separate discourses and debates within climate change leadership for the benefit of PhD students writing on climate change and mitigation, energy systems, energy technology and/or are interested in broadening their studies in this field. The course gives an overview of the separate concepts and theories within Climate leadership thinking and also give a broad orientation into political and governance theory for students unfamiliar with these fields. This will allow students working with technical systems and socio-technical systems to relate to relevant systems- and governance theory. The aim is for PhD student to become more conversant with governance and policy, be trained in related research ethics and responsibilities, and to facilitate mediation of research results to policy makers and civil society. The course will also provide students with broader research carrier and employment opportunities. Though primarily orientated to TekNat PhD student the course will be open also to PhD students from other faculties and the mix of the students from different research areas will be key in broadening the learning of the student group.

On completion of the course, the student should be able to:

- Critically discuss and problematise current issues and research within the emerging research and practice field of climate change leadership;
- Apply central theories and concepts within the climate change leadership field, in relation to their own doctoral studies and research interests;
- Be able to relate relevant methods during work within the climate change leadership field;
- Demonstrate and understanding of approaches and methods for working in the climate change leadership field in practice with societal actors outside the university context
- Author an interdisciplinary text within the climate change leadership field;

Kursinnehåll
Course contents
The course gives a broad orientation of theories and concepts within the emerging Climate change leadership field focusing on how to engender a rapid social transition to zero emission. The main focus lies on analysing how theories and concepts of climate change leadership, stemming from political and social sciences, systems thinking, governance theory and societal planning can be used to understand and shape transitions. The interdisciplinary course gives a broad background to relevant political theory for natural science students and offers a bridge to socio-technological systems thinking. Students are encouraged to position themselves in relation to climate change leadership thinking and to contextualise their own projects within the scientific debate. Different methods and tools with relevance for practical and policy work on rapid transition are also introduced and critically assessed. The course is examined through an individual essay which can be designed as a journal paper/and or policy brief.

Undervisning (kursens uppläggnning)
Instruction (course structure)
The teaching consists of lectures, seminars, workshops and individual mentor supervision. The lectures are given by teachers from different academic disciplines and other relevant societal sectors. The course also includes training in interdisciplinary and popular scientific communication. The teaching method is based on active student participation, discussion groups, peer-to-peer learning and critical thinking.

Examination
Assessment (form of examination)
The student is examined during the start period through a written assignment (5000 words) which can be designed as a journal paper/and or policy brief.

Course reference group and main examinators:
- Professor Kevin Anderson (Professor of Energy and Climate Change (University of Manchester; Deputy Director of the Tyndall Centre for Climate Change Research; Guest professor Uppsala University)
- The Zennström Climate Change Leadership professor, Professor Keri Facer (Professor of Educational & Social Futures, Bristol University).
- PhD Magdalena Kuhler (Natural Resource Management and Sustainable Development (NRHU) at the Department of Earth Sciences, Uppsala University)
- PhD Anneli Ekblom (CCL unit, Natural Resource Management and Sustainable Development (NRHU)
- PhD Cajsa Bartoush (Industrial Engineering & Management, Department of Engineering Sciences, Uppsala University)
- Professor, Rafael Waters (Division of Electricity, Department of Engineering Sciences, Uppsala University)
Huvudansvarig institution Natural Resources and Sustainable Development (NRHU)/Earth Sciences
Department with main responsibility

Kontaktperson/er (namn, e-postadress)
Contact person (name, e-mail address)
anneli.ekblom@ccl.uu.se

Kurs datum/period 1st September 2019
Course dates/period

Antal platser 30
Maximum number of participants

Anmälan om antagning till kursen ska skickas till
Application for admission to the course is to be sent to
Natural Resources and Sustainable Development (NRHU)/Geosciences

Skicka anmälan senast July 31st 2019
Submit application not later than

Målgrupp/er (om möjligt, specifera ämnen/inriktningar)
Target group/s (specify, if possible, subject/specialization) Geosciences, Technology