



FKE3040 CO₂ Capture and Storage 7.5 credits

CO₂ Capture and Storage

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for FKE3040 valid from Spring 2015

Grading scale

G

Education cycle

Third cycle

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The course will provide enhanced cross-disciplinary knowledge in the area of climate change mitigation technologies, especially on CO₂ capture and storage (CCS).

Course contents

The course consists of following topics:

- Introduction of climate change issues and issues related to greenhouse gas (GHG) emissions;
- Methodologies for GHG mitigation
- GHG emission sources;
- CO₂ capture
- CO₂ transport
- CO₂ storage
- Cost and societal issues of CCS

Disposition

Self-study and discussion with instructor and other students.

Course literature

- IPCC, Special Report on Carbon Dioxide Capture and Storage, Special Report of the Intergovernmental Panel on Climate Change, Bert Metz, Ogunlade Davidson, Heleen de Coninck, Manuela Loos and Leo Meyer (Eds.), Cambridge University Press., 2005, 443 pages, IABN-13 978-0-521-86643-9 Download at: <http://arch.rivm.nl/env/int/ipcc/pages/media/SRCCS-final/IPCCSpecialReportonCarbondioxideCaptureandStorage.htm>
- Other scientific papers and literatures

Examination

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Report & Discussion

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.

- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.