Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

SLUkurs

Syllabus

PNS0088 Biogeochemical cycles at different scales, 3.0 credits

Syllabus approved

2011-11-16

Subjects

Chemistry

Education cycle

Third cycle

Grading scale

Pass / Failed
The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

PhD students with interest in biogeochemical cycles are welcome to participate. Also other researchers (non-PhD students) interested in biogeochemical cycles are very welcome to participate in the workshop 12-16 March 2012.

Objective, including learning outcomes

The aims of the course are:
- that the participants should broaden their knowledge in biogeochemical cycling

• that the participants should work around the five themes and four perspectives displayed below.
• that the participants should be able to place their own research in a broader context of biogeochemical cycling.
• to strengthen the contacts and cooperation among PhD students.

Content

The course will be organized around the following topics:
1.Element storage, transformation and transport in and between soil, water and atmosphere.
2.Processes at different scales in time and space
3.Gaps in knowledge around the five themes
4.Identfying abiotic, biotic and antropopgenic drivers and feedbacks

Requirements for examination

In order to get the credits for the course participants are required to:
• Read the literature provided before the workshop. The literature consists of recent publications connected to the lectures.
• Give a oral presentation (10-15 minutes) or poster presentation on their own research. The presentation should not present details about experiments, but instead put the students own research in the context of other current research in biogeochemical cycles and explain how the research is relevant to important general scientific questions.
• Actively participate in the workshop discussions.

Additional information

The course is given by the Graduate School Focus on Soils and Water (FoSW).
Course will be given as intensive workshop 25-29 November 2013 with literature to be read before the workshop.

Responsible department

Department of Aquatic Sciences and Assessment