

Course description

Name of course:

Description, sampling and classifications of Danish soils based on field studies

ECTS credits:

5 ECTS

Course parameters:

Language: English

Level of course: PhD course, but we allow MSc students as well

Semester/quarter: 2022 (2 – 8 May 2022)

Hours per week: 11 hours *pr. day* and 7 days, plus one week of preparatory reading

Capacity limits: 16 participants

Objectives of the course:

Field-based studies of soils in Denmark, with travel throughout Denmark. Emphasis on description and classification of soils; relationships among soils, vegetation, geology, and climate; physical, chemical, and biological processes active in soils and landscapes; and the role of soils in land use.

Emphasis will also be on the ability to sampling for a range of soil physical analysis both individual soil profiles but also on fields with high variability. Field measurements of key soil properties will be performed.

Learning outcomes and competences:

At the end of the course the student **should be able to:**

Describe, classify and sample individual soil profiles, and fields.

Compulsory programme:

2/5 Monday 8 – 19. Course introduction, logistics. Introduction to soil morphology, classification,. Foulum

3/5 Tuesday 8 – 19. The fertile soils of east Denmark

4/5 Wednesday 8 – 19. The fertile soils of east Denmark

5/5 Thursday 8 – 19. The variable soils of Thy.

6/5 Friday 8 – 19. The poor soils of the west

7/5 Saturday 8 – 19. Soil variability on field scale. (soil survey and sampling)

8/5 Sunday 8 – 19. Sampling for soil physical analysis and soil sensor demonstration, exam and farewell.

Prerequisites:

Basic knowledge on soils

Name of lecturer[s]:

Mogens H. Greve

Anders B. Møller

Type of course/teaching methods:

The course comprises 7 days of intensive classroom and field study, mostly in the field, away from AU campus.

Literature:

WRB key

USDA Soil Survey Manual

Fao *Guidelines for soil description*

More.....

Course homepage:

n/a

Course assessment:

Exam by multiple choices and an assignment

Provider:

Dept. of Agroecology

Aarhus University

Blichers Allé 20, Postboks 50

DK-8830 Tjele

Special comments on this course:

Course fee is 900 Euro

This fee covers transportation, accommodation in hostels, and all meals

Time:

2 – 8 May 2022

Place:

AU, Campus Foulum and the landscapes of Denmark

Registration: <https://tilmeld.events/soilclassification2021/signup> before 1 April 2022.

For registration:

If you have any questions, please contact Mogens Humlekrog Greve, e-mail: greve@agro.au.dk

PLEASE NOTE

Deadline for registration is April 1, 2021