

## 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:* 2021

*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:**

3/5 Monday 8 – 19. Course introduction, logistics. Introduction to soil morphology, classification,. Foulum

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

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

6/5 Thursday 8 – 19. The variable soils of Thy.

7/5 Friday 8 – 19. The poor soils of the west

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

9/5 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:**

3 – 9 may 2021

**Place:**

AU, Campus Foulum and the landscapes of Denmark

**Registration:** <https://tilmeld.events/soilclassification2021/signup> before 1 April 2021.

For registration:

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

**PLEASE NOTE**

Deadline for registration is April 1, 2021