

IMSOGLO

Soil classifications COURSE DESCRIPTION (2019)

<u>Course information I</u>	
Course name	Soil classifications
Point(s) (ECTS)	5 ECTS (Study time 140 h, Contact hours 70 h)
Institute	Agroecology
Primary programme	EMJMD in International Master of Science in Soils and Global Change
Forms of instruction	Self-study – 20%; Lecture/Class room instruction – 20% Seminars/Practical – 50% Guidance (coached exercises) – 10%
Qualification description	<i>Course Objectives</i> The course provides students with an understanding of the basic concepts of soil classification. The course is a field-based studies of the 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.
Comments on teaching	The course combines self-study, participation in a field trip throughout Denmark including description and sampling of soils, theoretical lectures, soils analysis, project reports.
Prerequisites	It is assumed participants have basic knowledge in soil science, as well as some soil physics and soil chemistry courses
<u>Course information II</u>	
Semester (s)	Autumn
Language of teaching	English
Hours – weeks – semester (s)	5 day trip across Denmark (combination of on-site lectures and field work) 2 hours lecture and 4 hours of exercises per week for 8 weeks 10 days for preparation of project report
Course content	By the end of this course, you will have learnt: <ul style="list-style-type: none">• how different soil classifications are structured and designed• how soil characteristics are used to identify key diagnostic features used in soil classifications.• how key diagnostic features relate to soil processes and functions.• How to classify a DK soil using the internationally recognized soil classification systems• how to describe and sample soils

	<ul style="list-style-type: none"> • How to do field measurements of key soil properties
Teacher	The teaching will be conducted by experts in the area: Mogens H. Greve – Responsible Anders Møller
Literature	Soil classification : a global desk reference / edited by Hari Eswaran Ö [et al.]. p. cm. Includes bibliographical references and index. ISBN 0-8493-1339-2 (alk. paper) 1. SoilsóClassification. I. Eswaran, Hari. World Reference Base for Soil Resources (WRB) WRB key Fao Guidelines for soil description Soil Taxonomy A Basic System of Soil Classification for Making and Interpreting Soil Surveys
Maximum enrolment	7
Location	Campus Aarhus, AU Foulum, Field Trips

Assessment (form of examination)	
Grading	Internal co-examination
Assessment	7-point grading scale
Notes	Examination will be based on the submitted reports.
Prerequisites for examination participation	Participation in field trip across Denamrk, approved participation in practical exercises and submitted project report
<u>Exam</u>	
Examination type	Written report
Name	Xxxx
Exam time	
Preparation time	2 weeks
Aid	All