MSC SOILS AND GLOBAL CHANGE*
INTERNATIONAL MASTER’S PROGRAMME JOINTLY OFFERED BY EUROPEAN TOP UNIVERSITIES

The Erasmus Mundus International Master’s in Soils and Global Change (IMSOGLO) offers you a unique international educational experience with a focused curriculum on soils and global change by bringing together the expertise of research groups at four renowned EU universities.

The programme has been granted EU’s prestigious Erasmus Mundus label. It is offered jointly by Ghent University (Belgium), University of Natural Resources and Life Sciences (Austria), University of Göttingen (Germany), and Aarhus University (Denmark).

GLOBAL CHANGE AFFECTS THE FUTURE CAPACITY OF SOIL
Increasing population pressure, industrialisation and intensive land use are causing depletion of natural resources and are limiting the performance of land with respect to functions such as biomass production, carbon sequestration and water purification. The cumulative effects of climate change and the abovementioned aspects of global change influence the capacity of soils to regenerate and may even cause soil degradation.

The future capacity of soils to support (human) life is at stake, as recognised by national and international organisations and governmental bodies, such as the EU. Programmes have been developed to protect the environment and to increase ecosystem resilience. Numerous directives have been developed and implemented that build on scientific knowledge about soil response to external pressures.

This scientific knowledge is available in European universities, but rather dispersed due to the specialisation and size of the relevant research groups. In the past this has made it difficult for students to follow a focused curriculum on soils and global change at any individual university.

The alarming effects of global change on soils observed throughout the world emphasize the need to train more personnel worldwide to understand how soils react to global change and to develop prevention and remediation strategies and increase soil resilience. The participating universities in IMSOGLO are very well equipped to give effective and targeted training on soil interactions with global change to an international audience of students.

COMBINE YOUR OWN STUDY PROGRAMME AT DIFFERENT EUROPEAN UNIVERSITIES
As a student on the IMSOGLO programme you will attend several higher education institutes in at least two countries.

You will have the opportunity to choose between different specialisations in the programme and to select the universities you will be attending.

All students will study for their first semester at Ghent University. Following this, students will choose between two specialisations.

Students who choose to specialise in ‘Soil Biogeochemistry and Global Change’ will study in Vienna in their second semester and in Göttingen in their third semester. In their fourth semester, they will write their master’s thesis at one of these two universities.

Students who choose to specialise in ‘Physical Land Resources and Global Change’ will study in Ghent in their second semester and in Aarhus in their third semester. In their fourth semester, they will write their master’s thesis at one of these two universities.

All students will have the opportunity to attend summer school in Vienna or to conduct fieldwork in China.

ADMISSION REQUIREMENTS
A bachelor’s degree (minimum 180 ECTS credits) is required in pure or applied sciences (e.g., chemistry, biology, geology, civil or agricultural engineering, environmental or agricultural sciences) or an equivalent level from a recognised university or engineering college.

Sufficient academic knowledge (at least 40 ECTS in total) is also required in natural sciences (with natural sciences specified as: physics, chemistry, maths, ecology, biology, geography, environmental sciences or agricultural sciences).

English is the language of instruction in all subjects, and all applicants are therefore required to provide evidence of their English-language proficiency. Please find more information about English requirements online.

PLACE OF STUDY
Aarhus / Ghent

ANNUAL TUITION FEE
EU/EEA/Swiss citizens: EUR 4,500
Others: EUR 9,000

WWW
masters.au.dk/soilsandglobalchange
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CAREERS
With an International Master of Science in Soils and Global Change you will be trained in soil management in the context of global change with either an agro-ecosystem focus or an integrated land management focus. You will gain extensive knowledge about what it takes to save our soils from degradation, how to make soils resilient to climate change, and how to make soils healthy again.

You will be equipped to follow a variety of career paths as a top-level researcher, an academic, or a policymaker. This means that there are job opportunities in regional environment agencies, municipal nature conservation offices, agricultural advisory services, educational institutions, NGOs concerned with nature and the environment, consulting engineering companies, and EU institutions, ministries and other public authorities.

Research is also an obvious career path. Students can apply for admission to the university’s PhD programme following completion of the thesis.

IN THE RANKINGS
Agricultural sciences at Aarhus University rank fourteenth in the world in the 2019 US News Best Global Universities ranking, and in the 2018 National Taiwan University ranking are fourth in Agriculture, Dairy and Animal Science and ninth in Soil Science. Agriculture and Forestry at AU is ranked thirty-fifth in the 2019 QS World University Rankings by Subject.

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Fees are subject to change. See international.au.dk