Dynamics in Glaciology and Geomorphology

Degree conferred
Specialised Master of Science in Dynamics in Glaciology and Geomorphology

Languages of study
Study in English

Commencement of studies
Commencement of studies in the Autumn Semester (September) or in the Spring Semester (February)

Access to further studies
This master programme qualifies students for the doctoral programme Geography

Our specialised master programme in Dynamics in Glaciology and Geomorphology focuses on changes in cold environments. The programme teaches students with backgrounds other than geography - but with a bachelor's degree in a related discipline (e.g. geology, physics, hydrology,...) - the physical processes within the cryosphere, mountain geomorphology, natural hazards and land-atmosphere interactions. After studying a common module which addresses environmental issues from the perspective of human and physical geography, students focus on high altitude and polar regions and study their dynamics in the context of climate change.

Our programme familiarises students with state-of-the-art geoscientific measurement, modelling and data analysis tools. In a series of methodological and thematic courses, students learn to assess physical and environmental changes across a broad range of foci. Seminars, project work and excursions encourage students to apply their skills to real-world problems. In the framework of their master's thesis, students can participate in national or international research teams. Through quality teaching and mentoring, we aim to provide students with a genuinely professional qualification and optimal career perspectives.

Profile of the study programme

The Unit of Geography – part of the University of Fribourg Department of Geosciences – offers a specialised master's degree in Dynamics in Glaciology and Geomorphology. The degree focuses on current environmental research problems within regions of high altitude and latitude. The course focuses on understanding and analysing physical processes within the cryosphere and in the fields of mountain geomorphology, natural hazards, land-atmosphere interactions, climate, geophysics and hydrology. The programme deals with the various aspects of climate change and involves state-of-the-art geoscientific measurement, modelling and data analysis techniques.
Career openings
This programme is intended for motivated students who are interested in pursuing a career in research – e.g. by pursuing a PhD – or in the public or private sector – e.g. in geoscientific/environmental consulting and protection, risk analysis and mitigation, monitoring, public institutions or international organisations. The specialised master's degree does not give access to the teacher education for baccalaureate schools (DEEM or LDM) of the University of Fribourg.

Studies organisation

Structure of studies
120 ECTS credits, 4 semesters

Curriculum
http://studies.unifr.ch/go/vBvMa

Admission
Admission to the specialised master is based on the student's dossier, according to the conditions described in the study plan.
N.B. Students who have obtained a bachelor's degree in geography, or at least 60 ECTS credits in geography, should choose the master's degree in geography (option Dynamics in Glaciology and Geomorphology or Nature, Society and Politics).

Contact
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